

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

1.1 Product Trade Name:	GLASS IONOMER CEMENT - POWDER
1.2 Part (Item) Number(s):	307-0201-001
1.3 Manufacturer:	DENTAL TECHNOLOGIES, INC.
1.4 Address:	6901 N. HAMLIN AVENUE
City, State, Zip:	LINCOLNWOOD, IL 60712 U.S.A.
1.5 Emergency Telephone Number:	(800) 424-9300 / (703) 527-3887 (Chemtrec)
1.6 Information Telephone Number:	(800) 835-0885 / (847) 677-5500
1.7 Date Revised:	7-Oct-04 Rev. 001

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS
Alumino silicate fluoride barium glass				

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point:	N/A
3.2 Vapor pressure:	N/A
3.3 Vapor density:	N/A
3.4 Solubility in water:	Not soluble.
3.5 Appearance and odor:	Fine white powder, no odor.
3.6 Specific Gravity: (H ₂ O = 1)	N/A
3.7 Melting Point:	N/A
3.8 Evaporation rate: (Butyl Acetate = 1)	N/A

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used):	N/A
4.2 Flammability (explosive limits):	LEL: N/A UEL: N/A
4.3 Extinguishing media:	Carbon dioxide, chemical foam or dry chemical.
4.4 Special Fire Fighting Procedures:	None
4.5 Unusual fire and explosion hazards:	None

SECTION V - Reactivity Data

5.1 Stability:	Unstable:	Stable:	X
5.2 Conditions to avoid (stability):	None		
5.3 Incompatibility (material(s) to avoid):	N/A		
5.4 Hazardous decompositions or byproducts:	N/A		
5.5 Hazardous polymerization:	May occur:	Will not occur:	X

SECTION VI - Health Hazard Data

6.1 Route(s) of entry:	Inhalation?: Yes	Skin?: Yes
	Ingestion?: Yes	
6.2 Health hazards (acute and chronic):	Very slight health hazard when used under normal conditions of use. May cause moderate respiratory, eye or skin irritation.	
6.3 Carcinogenicity:	NTP?: N/A	IARC monographs?: N/A
	OSHA Regulated?: N/A	
6.4 Signs and symptoms of exposure:	Redness or irritation of the eyes or skin.	
6.5 Medical conditions generally aggravated by exposure:	None known	
6.6 Emergency first aid procedures:	Skin:	Wash thoroughly with soap and water.
	Ingestion:	Rinse mouth thoroughly. If swallowed, dilute with water. Consult a physician.
	Inhalation:	Move subject to fresh air. Get medical attention.
	Eye Contact:	Flush with flowing water for 15 minutes and call

a physician.

SECTION VII - Precautions for Safe Handling and Use

- 7.1 **Steps to be taken in case material is released or spilled:** Wipe or sweep up spilled material and place into container for disposal while wearing gloves and dust mask.
- 7.2 **Waste disposal methods:** Dispose of according to federal, state, and local regulations.
- 7.3 **Precautions to be taken in handling and storage:** Store in a cool dry place. Avoid contact with skin and eyes.
- 7.4 **Other precautions:** None

SECTION VIII - Control Measures

- 8.1 **Respiratory protection:** OSHA approved nuisance dust mask
- 8.2 **Ventilation:** Local exhaust
- 8.3 **Protective gloves:** Always recommended.
- 8.4 **Eye protection:** Recommended.
- 8.5 **Other protective clothing or equipment:** None
- 8.6 **Work/Hygienic practices:** Observe normal care when working with chemicals.
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NFPA HAZARD CLASSIFICATIONS	
Health	1
Flammability	0
Reactivity	0
Specific Hazard	N/A

NFPA - National Fire Protection Association
N/A - Not Applicable
N/E - Not Established

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

- 1.1 **Product Trade Name:** GLASS IONOMER CEMENT - LIQUID
- 1.2 **Part (Item) Number(s):** 307-0101-001
- 1.3 **Manufacturer:** DENTAL TECHNOLOGIES, INC.
- 1.4 **Address:** 6901 N. HAMLIN AVENUE
City, State, Zip: LINCOLNWOOD, IL 60712 U.S.A.
- 1.5 **Emergency Telephone Number:** (800) 424-9300 / (703) 527-3887 (Chemtrec)
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- 1.7 **Date Revised:** 07-Oct-04 Rev. 001

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS
Polyacrylic Acid	[9003-01-4]	N/A	N/A	

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point:	208F/98C
3.2 Vapor pressure:	N/A
3.3 Vapor density:	N/A
3.4 Solubility in water:	Completely soluble in water.
3.5 Appearance and odor:	Clear colorless liquid with faint odor. If flavored, product may be colored and have odor of stated flavor.
3.6 Specific Gravity: (H ₂ O = 1)	> 1.0
3.7 Melting Point:	N/E
3.8 Evaporation rate: (Butyl Acetate = 1)	N/A

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used):	N/A
4.2 Flammability (explosive limits):	N/A
	LEL: N/A UEL: N/A
4.3 Extinguishing media:	N/A
4.4 Special Fire Fighting Procedures:	None
4.5 Unusual fire and explosion hazards:	None

SECTION V - Reactivity Data

5.1 Stability:	Unstable:	Stable:	X
5.2 Conditions to avoid (stability):	Extreme heat over 208F/98C		
5.3 Incompatibility (material(s) to avoid):	None		
5.4 Hazardous decompositions or byproducts:	Thermal decomposition may yield acrylic monomer and oxides of carbon.		
5.5 Hazardous polymerization:	May occur:	Will not occur:	X

SECTION VI - Health Hazard Data

6.1 Route(s) of entry:	Inhalation?: Yes	Skin?: Yes
	Ingestion?: Yes	
6.2 Health hazards (acute and chronic):	High concentrations can be irritating to eyes, nose and throat. Poor ventilation may produce headaches and nausea. Contact with eyes causes irritation. Prolonged use may cause skin irritation.	
6.3 Carcinogenicity:	NTP?: N/A	IARC monographs?: N/A
	OSHA Regulated?: N/A	
6.4 Signs and symptoms of exposure:	Itching, redness, burning sensation on skin of sensitive persons. Severe eye irritation.	
6.5 Medical conditions generally aggravated by exposure:	Unknown.	
6.6 Emergency first aid procedures:	Skin:	Wash off with soap and water. If irritation persists consult a physician.
	Ingestion:	Drink plenty of water and seek medical advice.
	Inhalation:	Move subject to fresh air.
	Eye Contact:	Flush promptly with plenty of water, seek medical attention.

SECTION VII - Precautions for Safe Handling and Use

- 7.1 Steps to be taken in case material is released or spilled:** Clean up using gloves, wiping with paper towels. Dispose in an approved manner.
- 7.2 Waste disposal methods:** Disposal of according to local, state, and federal regulations.
- 7.3 Precautions to be taken in handling and storage:** Store in a cool area away from food stuff and beverages. Avoid contact with skin, tissue, gum, and eyes.
- 7.4 Other precautions:** Avoid eye contact. Keep container tightly closed when not in use.

SECTION VIII - Control Measures

- 8.1 Respiratory protection:** Generally not necessary.
- 8.2 Ventilation:** Local exhaust recommended.
- 8.3 Protective gloves:** Recommended.
- 8.4 Eye protection:** Recommended.
- 8.5 Other protective clothing or equipment:** None
- 8.6 Work/Hygienic practices:** Normal safe practices. Use only in a highly professional manner.

NFPA HAZARD CLASSIFICATIONS	
Health	1
Flammability	0
Reactivity	0
Specific Hazard	N/A

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N/E - Not Established