

MATERIAL SAFETY DATA SHEET

DELTON® PIT & FISSURE SEALANT - LIGHT CURE - OPAQUE

Cartridges & 2.7 ml Bottles

SECTION I — GENERAL INFORMATION

1.1 Product Trade Name: Delton® Pit & Fissure Sealant - Light Cured - Opaque
 1.2 Part (Item) Numbers: 2797, 2696, 2698, 2794
 1.3 Chemical Name: Bis-GMA Based Resin
 1.4 Synonyms: Opaque Sealant
 1.5 Company Name: Ash/Dentsply
 Address: 570 W. College Ave., P.O. Box 872
 City, State, Zip: York, PA 17405-0872
 1.6 Emergency Phone Number: (800) 877-0020

TYPE II — EXTERNAL-ENERGY-CURED

1.7 Phone Number for Information: (800) 877-0020
 1.8 Date Prepared: July 15, 1993
 1.9 Ash/Dentsply Contact:
 1.10 Signature:
 1.11 Formula: N.A.
 1.12 National Stock No.: N.A.
 1.13 Specification No.: N.A.
 1.14 Chemical Family: N.A.
 1.15 Type/Grade/Class: N.A.
 1.16 NRC/EPA Number: N.A.

SECTION II — INGREDIENTS

INGREDIENTS	CAS NUMBER	PERCENTAGE	EXPOSURE LIMITS	REFERENCE*
Aromatic and aliphatic dimethacrylate monomers		98.54	ND	5
Titanium dioxide (colloidal)	16463	3.00	N.A.	5
Silica (colloidal)		3.00	N.A.	5
Ethyl-p-dimethyl-aminobenzoate		1.08	N.A.	5
Light activators		< 1.0	N.A.	5

* REFERENCES FOR EXPOSURE LIMITS: 1. Federal OSHA Permissible Exposure Limit 2. ACGIH Threshold Limit Values TLV-TWA
 3. NIOSH Exposure Limit Values 4. Chemical Manufacturers Recommended Guidelines 5. (NE = None Established, NA = Not Applicable, ND = Not Determined)

SECTION III — PHYSICAL PROPERTIES

3.1 Boiling Point: N.A.
 3.2 Vapor Pressure: N.E.
 3.3 Vapor Density: N.A.
 3.4 Critical Temperature: N.A.
 3.5 Decomposition Temperature: N.A.
 3.6 Melting/Freezing Point: N.A.
 3.7 Solubility in Water: N.A.
 3.8 Critical Pressure: N.A.
 3.9 Perm. Exp. Limit: N.A.
 3.10 Appearance and Odor: White liquid, characteristic methacrylate odor. Liquid sealant forms an opaque polymerized film.
 3.11 Specific Gravity: 1.2
 3.12 pH: N.A.
 3.13 Evaporation Rate: N.A.
 3.14 Viscosity: N.A.
 3.15 Magnetism: N.A.
 3.16 Autoignition Temp: N.A.
 3.17 Corrosion Rate: N.A.
 3.18 Molecular Weight: N.A.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

4.1 Flash Point (Method Used): N.A.
 4.2 Flammable (Explosive Limits): N.D. LEL: N.D. UEL: N.D.
 4.3 Extinguishing Media: Dry chemical foam, CO₂, dry chemical
 4.4 Special Fire Fighting Procedures/Equipment: Use protective gear. Use water fog to cool large containers exposed to fire in warehouse or manufacturing facilities.
 4.5 Unusual Fire and Explosion Hazards: Material may burn if exposed to flame. Keep away from ignition sources.

SECTION V — HEALTH HAZARD DATA

5.1 Effects of Acute and Chronic Over Exposure
EYES: May cause irritation upon contact.
SKIN: Avoid prolonged contact with the skin. Repeated contact may cause reddening and irritation.
INHALATION:
INGESTION: N.A.
 5.2 Emergency and First Aid Procedures: N.A.
EYES: Immediately flush eyes with copious quantities of water for 15 minutes; seek medical attention if irritation or discomfort persists.
SKIN: Wash skin with soap and water. Moisturizing cream may be used to prevent drying and cracking of skin.
INHALATION: N.A.
INGESTION: N.A.
 5.3 Toxicity: (LD₅₀, LC₅₀, etc.) >5000mg/kg

SECTION VI — REACTIVITY DATA

6.1 General Reactivity: Unstable: Stable: X
 6.2 Conditions to Avoid (Stability):
 6.3 Incompatibility (Materials to Avoid): N.A.
 6.4 Hazardous Decomposition or Byproducts: None
 6.5 Hazardous Polymerization: Unknown
 6.6 Conditions to Avoid (Polymerization): May Occur (only in large quantities) Elevated temperatures.

SECTION VII — SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

7.1 Handling and Storage Precautions: Do not get into eyes, on skin or clothing. Keep in tightly closed container. Shake bottle before using.
 7.2 Other Precautions: None
 7.3 Steps to be Taken in Case Material is Released or Spilled: Absorb onto vermiculite or clay. Scoop up and dispose into acceptable containers.
 7.4 Waste Disposal Procedures: Dispose in accordance with all applicable Federal, State and Local regulations for relatively non-toxic organics. Avoid conditions which may result in dispersion to streams or waterways.
 7.5 Neutralizing Agent: N.A.

SECTION VIII — OCCUPATIONAL PROTECTION MEASURES

8.1 Respiratory Protection: None required
 8.2 Ventilation: N.A.
 8.3 Protective Gloves: Yes, impervious.
 8.4 Eye Protection: Chemical splash goggles are recommended.
 8.5 Other Protective Clothing or Equipment: None
 8.6 Work/Hygienic Practices: Observe normal care when working with chemicals.

SECTION IX — TRANSPORTATION

9.1 Applicable Regulations: IMOC: N.A. IATA: N.A. 49 CFR: N.A. Military Air (AFR 71-4): N.A. Tariff 6D: N.A.
 9.2 Shipping Name: N.A.
 9.3 I.D. Number: N.A.
 9.4 Report Quantity: N.A.
 9.5 Hazard Class: N.A.
 9.6 Labels: N.A.
 9.7 Aerosol Propellant(s): N.A.
 9.8 Net Explosive Weight: N.A.
 9.9 Unit Container: N.A.
 9.10 DOT SPSC Container: N.A.
 9.11 DOT Exempt/DOD/CNN: N.A.
 9.12 Limited Quantity: N.A.