

**MATERIAL SAFETY DATA SHEET: DenTASTIC A, B, C**

**IDENTITY:** Trade Name: DenTASTIC DENTAL ADHESIVE  
Code: DAS, DAS-C1, DASP-A, DASP-B, DASP-C

**Chemical Description:**

**Part A:** Mg NTG-GMA in acetone base (magnesium salt of the reaction product of N-toluene glycine and glycidil methacrylate) and inhibitors.

**Part B:** PMGDM in acetone base (the reaction product of pyromellitic dianhydride with glycerol dimethacrylate), di- and tri-functional monomers and activators.

**Part C:** Activators, mono- and di-functional monomers and oligomers in acetone base.

**Product Use:** Dental adhesive system

**SECTION I**

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Date Prepared: September 1, 2008

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24 Hour Emergency: 1-800-535-5053

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**SECTION II - HAZARDOUS INGREDIENTS**

Ingredients	CAS RN	PEL/TLV	UN Number
Mg NTG GMA	83418-59-1	Not established	----
PMGDM	148019-46-9	Not established	----
Acetone	67-64-1	TWA: 750 ppm / STEL: 1000 ppm	UN 1090

DOT HAZARD CLASSIFICATION: Class 3, PG II, Flammable Liquid

WHMIS CLASSIFICATION: B-2, Flammable Liquid / D-2, Possible Irritant or Sensitizer

NFPA HMIS RATING: HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 2

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 56.5°C Specific Gravity: 0.788 Vapor Pressure: 180 mm Hg

Melting Point: -94°C Vapor Density: 2.0 Evaporation Rate: 6

Solubility in water: Very soluble Odor Threshold: 20 ppm

Odor: Characteristic, sweet mint-like acetone odor

Appearance: Part A: Pale yellow to amber thin liquid; Part B: Yellow liquid; Part C: Amber colored thin liquid;

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: - 18°C Flammable limits: LEL 2.5% UEL 12.8%

Extinguishing Media: Use dry chemical, CO<sub>2</sub>, alcohol resistant foam, water spray.

**Special Fire Fighting Procedures:** Use water to keep fire exposed containers cool. Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece, when there is the possibility of exposure to smoke, fumes, or hazardous decomposition products.

**Hazardous Combustion Products / Unusual Fire and Explosion Hazards:** Heat, aging or contamination can lead to explosive polymerization.

**SECTION V - REACTIVITY DATA**

Stability: Stable under normal conditions of use and storage.

Conditions to avoid: Heat, sparks and flame, ungrounded metal containers, contamination. Use promptly.

Incompatibility: Acids, bases, amines, bromines, chloroform, hydrogen peroxide, strong oxidizers, plastics, rayon, ketones and acetaldehyde.

Hazardous Decomposition Products: Thermal decomposition may produce toxic oxides of carbon.

Hazardous Polymerization: Possible

Conditions to avoid: Heat, sparks and flame, contamination, storage for prolonged periods.

**SECTION VI - HEALTH HAZARD DATA**

*Summary of Acute Hazards:* Minimal health hazard under normal conditions of use and storage and in the quantities present in this product. May be irritating to eyes, skin, or respiratory tract. In large quantities and with prolonged exposure, acetone presents a significant health hazard.

<i>Route of Exposure</i>	<i>Signs &amp; Symptoms</i>
Inhalation	May irritate nose, throat. Headache/fatigue with prolonged/repeated exposure.
Eye Contact	May irritate eyes.
Skin Absorption	Slightly toxic.
Skin Contact	May cause dry or red skin or allergic reaction.
Ingestion	Harmful if swallowed; nervous system depressant. LD <sub>50</sub> (rat): 10.7 ml/kg

*Summary of Chronic Hazards:* Prolonged exposure to acetone, over TLV, may cause mucous membrane irritation, fatigue, weakness, headache, hematological and central nervous system changes, conjunctivitis. Methacrylates may cause sensitization in susceptible individuals.

Carcinogenicity	Not known to be a carcinogen.
Teratogenicity	None known
Mutagenicity	None known
Reproductive Toxicity	None known
Special Health Effects	Persons with chronic respiratory or skin disease are at increased risk with prolonged exposure to acetone.

*Emergency First Aid Procedures:*

Inhalation	Move to fresh air. Give oxygen; get medical care for difficult breathing.
Eye contact	Flush the contaminated eye with flowing water for 15+ minutes. If irritation persists, obtain medical care.
Ingestion	For large quantities, dilute with water, but only if person is conscious. Give activated charcoal. Get emergency medical care.
Skin contact	Wash affected area thoroughly with mild soap and water. If irritation develops or persists, seek medical advice.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE**

*Handling and Storage Precautions:* Store tightly capped in original container at cool room temperature. Avoid cross-contamination between parts. Avoid heat, sparks, flames moisture and incompatible materials. Ground metal containers. Empty containers may retain residual product and should be handled appropriately.

*Steps to Be Taken if Material is Released or Spilled:* For small quantities, as in this product: Wear gloves and splash goggles. Absorb spill with inert material, such as paper towels. Place all absorbent material in closed container away from heat, sparks, and flame. Wash area of spill with soap and water.

*Waste Disposal Method:* Follow all government regulations. Keep spills out of sewers, open bodies of water.

*Other Precautions:* Avoid contact with eyes, skin or clothing. Avoid breathing vapors. Wash hands after use.

**SECTION VIII - CONTROL MEASURES**

*Respiratory Protection:* Surgical mask is usually adequate. For exposure >TLV, use a NIOSH-approved respirator.

*Ventilation:* No special ventilation is usually required. Large quantities of acetone require local exhaust.

*Protective Gloves:* Recommended.

*Eye Protection:* Safety glasses or splash goggles are recommended.

*Other Protective Clothing or Equipment:* Emergency eye wash fountain. Dental staff should wear lab coats.

*Work/Hygienic Practices:* Wash hands after use.

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