

MATERIAL SAFETY DATA SHEET: DENTASTIC DUO *Dual Cure Catalyst For DenTASTIC UNO*

IDENTITY: *Trade Name:* DENTASTIC DUO
Chemical Description: Mg NTG-GMA in acetone base (magnesium salt of the reaction product of N-toluene-glycine and glycidil-methacrylate) & inhibitors.
Product Use: Dental adhesive system

SECTION I

Pulpdent Corporation
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SECTION II - HAZARDOUS INGREDIENTS

<i>Ingredients</i>	<i>CAS RN</i>	<i>PEL/TLV</i>	<i>UN Number</i>
Mg NTG GMA	83418-59-1	Not established	---
PMGDM	148019-46-9	Not established	---
Acetone	67-64-1	TWA: 750 ppm / STEL: 1000 ppm	UN1090

DOT HAZARD CLASSIFICATION: Class 3, PG II, Flammable Liquid
WHMIS CLASSIFICATION: B-2, Flammable Liquid / D-2, Possible Irritant
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: Pale yellow to amber 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, CO₂, 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.

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<i>Route of Exposure</i>	<i>Signs & 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 red or dry skin or allergic skin reaction.
Ingestion	Harmful if swallowed; nervous system depressant. LD ₅₀ (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 be sensitizers for susceptible individuals.

Carcinogenicity	Not known to be a carcinogen.
Teratogenicity, Mutagenicity, 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; seek medical care for difficult breathing.
Eye contact	Flush the contaminated eye with running water for 15+ minutes. If irritation persists, seek medical care.
Ingestion	For large quantities, dilute with water, but only if person is conscious. Give activated charcoal. Seek emergency 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 at cool room temperature. Avoid cross-contamination between parts. Avoid heat, sparks and 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 and 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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