

IDENTITY

Trade Name: DenTASTIC UNO-DUO, DenTASTIC UNO + DenTASTIC DUO

Code: UNDO

Chemical Description:

- *DenTASTIC UNO*: PMGDM base (reaction product of pyromellitic dianhydride with glycerol dimethacrylate), monomer resin and activators in acetone.
- *DenTASTIC DUO*: Dual cure catalyst. Mg NTG-GMA in acetone base (magnesium salt of the reaction product of N-toluene glycine and glycidil methacrylate) and 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>
UNO: PMGDM	148019-46-9	Not established	---
DUO: Mg NTG-GMA	83418-59-1	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, acetone

Appearance: UNO: Thin, clear to yellow liquid that leaves a resinous residue upon evaporation.

DUO: 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 positive pressure mode with full face piece.

Hazardous Combustion Products / Unusual Fire/Explosion Hazards: Heat, aging, contamination can lead to explosion / 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 products: toxic oxides of carbon.

Hazardous Polymerization: Possible. Avoid: Heat, sparks, flame, contamination, prolonged storage.

SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Minimal health hazard under normal conditions of use. May be irritating. Prolonged exposure to large quantities of acetone presents a significant health hazard.

<i>Route of Exposure</i>	<i>Signs & Symptoms</i>
Inhalation	May irritate nose or throat; may cause headache or fatigue.
Eye Contact	May irritate eyes.
Skin Absorption	Slightly toxic.
Skin Contact	May cause skin to become red or dry. May cause 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 cause sensitization in 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.

Emergency First Aid Procedures:

Inhalation	Move to fresh air. Give oxygen for difficult breathing. Seek medical care.
Eye contact	Flush with running water for 15+ minutes. Seek medical care for irritation.
Ingestion	<i>For large quantities:</i> If person is conscious, give water to dilute. Contact Poison Control Center. Induce vomiting or give activated charcoal only on their advice. Seek medical care.
Skin contact	Wash with soap, water. Seek medical care for persistent irritation.

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, flames, moisture and incompatible materials. Ground metal containers. Empty containers may retain residual product and should be handled appropriately.

Release or Spill: For small quantities: 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 government regulations. Keep spills from sewers, open bodies of water.

Other Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Wash hands.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: Not necessary under normal conditions of use. For large quantities over the TLV, a NIOSH-approved respirator is recommended.

Ventilation: Under normal conditions of use, no special ventilation is required. Large quantities of acetone require local exhaust to keep exposure below the TLV.

Protective Gloves: Recommended. *Eye Protection:* Safety glasses or splash goggles

Other Protective Clothing/Equipment: Emergency eye wash fountain. Dental staff should wear lab coat.

Work/Hygienic Practices: Wash hands after use.

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