

IDENTITY

Trade Name: DenTASTIC UNO Code: UNO, UNO-R, UNO-DUO  
Chemical Description: PMGDM base (the reaction product of pyromellitic dianhydride with glycerol dimethacrylate), monomer resin and activators in acetone.  
Product Use: Dental adhesive

SECTION I

Pulpdent Corporation

80 Oakland Street

Watertown, MA 02472 USA

Phone Numbers:

24 Hour Emergency: 1-800-535-5053

Customer Service: 1-800-343-4342/1-617-926-6666

Date prepared: September 1, 2008

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS RN	PEL / TLV	UN Number
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  
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  
Appearance: Thin, clear to yellowish liquid that leaves a resinous residue upon evaporation.

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: Water will 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 explosion or 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

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. May be irritating. Prolonged exposure to large quantities of acetone presents a significant health hazard.

<i>Route of Exposure</i>	<i>Signs &amp; Symptoms</i>
Inhalation	May irritate nose, throat. Prolonged/repeated exposure to large quantities of acetone may cause headache or fatigue.
Eye Contact	May irritate eyes.
Skin Absorption	Slightly toxic.
Skin Contact	May cause red or dry skin or allergic skin reaction in susceptible individuals.
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, 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 with syrup of ipecac and/or give activated charcoal only on their advice.
Skin contact	Wash with soap, running water. Seek medical care for persistent irritation.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

*Handling and Storage Precautions:* Store tightly closed at cool room temperature. 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:* Wear gloves and splash goggles. Absorb spill with inert material, e.g., paper towels. Place absorbent material in closed container, away from sources of ignition. 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:* Under normal conditions of use, the surgical mask worn by dental staff is adequate. 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 recommended.

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

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

*The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.*