

## MATERIAL SAFETY DATA SHEET

DRM Research Laboratories, Inc.  
P.O. Box 408, Branford, CT 06405  
Tel. # for Information: (203)488-5555.  
MSDS number: L101  
CAS number: Mixture  
Date prepared: May 1996

### Section I: Material Identification and Hazard Components

Material Name: DIAMONDLITE™ universal direct dental filling restorative ( visible light cure )

### Section I(A): Ingredients

Formulae: The specific chemical identity of the ingredient compounds is considered proprietary.  
Cas. No.: Dental filled resin composite - visible light cure polymer blend resins, filled and tinted.  
Chemical Family: Dental grade functional dimethacrylic esters, glassceramic silica filled and FDA & FDC approved pigments.

### Section I(B): Hazards

Avoid eye contact  
Avoid ingestion  
Avoid prolonged contact with skin, mucous membrane and oral mucosa while composite restorative material is in its unpolymerized state.

### Section II: Physical / Chemical Characteristics

Solubility in water : None  
Specific gravity: 2.0050 g/cc  
Appearance & Odor: viscous, colored dental composite filled resin, odorless.  
Visible light cure: Polymerization will occur between 400-700nm light wavelength and premature gelling at elevated temperature.

### Section III: Fire & Explosion Hazard Data

Material will auto-ignite between 400-800°F, deprive of oxygen / allow to extinguish. Flash point > 400°F, material will congeal, semisolid phase ( rubbery ) at / below 4°C/40°F. Fire fighters should wear full protective clothing and gear including a self-containing breathing apparatus, CO<sub>2</sub>, hydrocarbons, methacrylate vapors liberated when ignited. Use foam/ sand/ vermiculite/ soda ash for absorbance and fire deterrence.

### Section IV: Reactivity Hazard Data

Reactivity in water - None in unpolymerized or polymerized / hardened state - insoluble. Negligible trace amount of water sorption long term. Soluble in absolute alcohols; ethanol, methanol, acetone, etc. Avoid moisture contamination or premature visible light exposure in the unpolymerized state.

### Section V: Health Hazard Information TLV [ see section I(B)]

Eyes: Flush eyes 5 min. with water, consult an Ophthalmologist immediately. Rinse/Flush under physician care with alkaline/saline solution.  
Skin: Remove with paper towel and alcohol when in contact with skin - hypersensitive reaction may occur.  
Ingestion: Consult a physician immediately, allow normal vomiting and fresh air. Restorative Material is radiopaque / X-ray detectable.  
Biocompatibility: Not reactive " Biocompatible " in human blood donor hemolysis, systemic extracts injection, Intracutaneous reactivity extracts, intramuscular implants reactivity tests.  
Cytotoxicity: Not cytotoxic, fibroblast cellular reactivity tests.

### Section VI: Control and Protective Measures

Collect by mechanical means after binding with absorbing material ( saw dust / sand / vermiculite, soda ash, etc.) and dispose appropriately. Remove the residues with paper towel. Wear protective clothing, lab. coat, goggles, face mask and gloves.

### Section VII: Precautions for Safe Handling Use / Leaks Procedures

Ventilation : YES, Local Exhaust : YES  
Isolation: Goggles, gloves, intraoral rubber dam, cotton rolls, mylar forms and retraction cords recommended. Use fresh aliquots of restorative material with each patient. Avoid instrument cross - contamination. Sterilize, autoclave and alcohol rinse all operative tools.

### Special Precautions

Store cool and dry at or below room temp. 73°F, 23°C, refrigerate preferably. Avoid visible light exposure - premature gelling / polymerization hardening will occur between 400-700nm light wavelength, i.e; Halogen, white / blue light. Avoid moisture contact in the unpolymerized state, acids, alkalis, salts, metals ( except; stainless steel alloy instruments, dental alloy restorations, plastic, glass, graphite instruments and disposable nylon brush tips ), amines, peroxide catalysts, alcohols, oils, fluorides, eugenol containing astringents and preimpregnated retraction cords. Cap syringes after usage and intermittently. Avoid instruments cross contamination. Avoid prolonged skin, mucous membrane, oral mucosa and gingival(gum tissue) contact in the unpolymerized state. Avoid eye contact. Allow to bench rest and attain room temperature(approx. 30 min. rest period) prior to usage upon removal from refrigerator.

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. DRM Research Laboratories, Inc., however makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will DRM Research Laboratories, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.