

MATERIAL SAFETY DATA SHEET

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MSDS number: C301
CAS number: Mixture
Date prepared: May 1996

Section I: Material Identification and Hazard Components

Material Name: DIAMONDCROWN™ crown & bridge prosthodontic / restorative material (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 / oligomers, 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: 2.1005 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, CO₂, 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.

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