Trade Name: Tuff-Temp™ Plus Provisional Veneer, Crown & Bridge Resin

| 1.0 | Commercial Product Name and Supplier | | | |
|-------|---|---|---|--------------------------------------|
| 1.1 | Commercial product name / designation | Tuff-Temp™ Plus Provisional Veneer, Crown & Bridge Resin Tuff-Temp™ Provisional Add-On Tuff-Temp™ Provisional Glaze | | |
| 1.2 | Application / Use | Dental material for us | se by dental professional | only. |
| 1.2.2 | SIC | 851 Human health a | ctivity | |
| 1.2.3 | Use Category | 55 | | |
| 1.3 | Manufacturer | | | |
| | Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA | Telephone: 1 617 92 Email: Pulpdent@pu | 6-6666 / Fax: 1 617 926-6 lpdent.com | 5262 |
| 1.4 | Emergency Telephone Number | 1-800-535-5053 (24 | Hour / USA) | |
| 1.5 | Authorized European Representative | Advena Ltd. Pure Offices, Plato C Warwick, CV34 6WE United Kingdom | | |
| 2.0 | Hazards Identification | | | |
| 2.1 | Classification | | | |
| 2.1.1 | Classification according to Regulation (EC) No 1272/2008 [CLP] | Hazard Class Eye irritation STOT SE Skin irritation Skin sensitization | Hazard Category 2 3 2 1 | Hazard Statement H319 H335 H315 H317 |
| 2.1.2 | Classification according to Directive 67/548/EEC | Irritant; Xi; R 36/3 | 7/38 – 43 (See SECTION 1 | 6 for full text of risk phrase |
| 2.2 | GHS Label Elements Hazard Pictograms | | | |

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Signal Word: WARNING

Restricted to use by dental professional only.

Hazard Statements

H319: Eye irritation. 2. May cause eye irritation. H335: STOT SE. 3. May cause respiratory irritation. H315: Skin irritation. 2. May cause skin irritation.

H317: Sensitization. 1. May cause an allergic skin reaction.

Precautionary Statements

P261: Avoid breathing vapor.

P280: Wear protective gloves and eye protection

P305+P351: If in eyes, rinse cautiously with water for several minutes.

P337+P313: If eye irritation persists, get medical advice/attention.

P302+P352: If on skin, wash with plenty of soap and water.

P333+P313: If irritation or rash occurs, get medical advice/attention.

P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.

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| 3.0 | Composition | | | | |
|-----|--|-----------------------------|---|---|--|
| 3.1 | Chemical characteriza | tion of the preparation: | Glass-filled met | hacrylate resins in a two | o-part, dual-cure paste. |
| 3.2 | Hazardous ingredients | • | | | |
| | CAS Number | Name of the Ingredient | Concentration | Classification per 67/548/EEC | Classification per Regulation (EC) No.1272/2008 (CLP). |
| | Proprietary | Uncured methacrylate resins | 55-60% | Xi (Irritant), R 36/37/38 - 43 | Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317 |
| | 112945-52-5 | Silica, amorphous | 5 % | Xi (Irritant), R 36/37/38 | Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 |
| 4.0 | First Aid Measures | | | | |
| 4.1 | General Information | | contact with ey | yes and skin. May cau by data sheet to medical | nbranes or skin on contact. Avoid se sensitization by skin contact. personnel. Get medical attention |
| 4.2 | Inhalation | | | air. If necessary, ad ek medical attention. | minister oxygen and/or artificial |
| 4.3 | Skin Contact | | Take off contaminated clothing. Wash skin thoroughly with soap and water. | | |
| 4.4 | Eye Contact | | Keep eyelids apart and flush with running water for 15+ minutes. Get medical attention. | | |
| 4.5 | Ingestion | | attention. May | | vomiting. Get immediate medical membranes. Never give anything |
| 4.6 | Precautions for first responders | | Ventilate the area. Wear eye and skin protection. | | |
| 4.7 | Information for physici | ans | | | |
| | Symptoms | | Irritation or redness in eyes, throat or on skin. | | |
| | Hazards | | May be irritatir sensitization by | | embranes and skin. May cause |
| | Treatment | | As above under | r First Aid. | |
| 5.0 | Fire Fighting Measur | es | | | |
| 5.1 | Suitable extinguishing | media | | , dry chemical, alcohol keep fire exposed cont | foam, or water fog. Water spray ainers cool. |
| 5.2 | Extinguishing media to avoid | | Do not use direct water stream | | |
| 5.3 | Special exposure hazards in a fire | | Heat may cause polymerization with rapid release of energy. | | |
| 5.4 | Special protective equipment for fire-fighters | | Self-contained breathing apparatus | | |
| 6.0 | Accidental Release N | Measures | | | |
| 6.1 | Personal precautions. | | Wear safety gla | sses, gloves and lab co | at. |

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| 6.2 | Environmental precautions | Avoid releasing large amounts of uncured material into the environment Cured / set-up material is, to our knowledge, inert. |
|---------|--|--|
| 6.3 | Method for clean up | Contain spilled material. Absorb or wipe up spill paper towels or cloths. Collect for disposal in a covered container. Wash area of spill with alcohol or soap and water. |
| 7.0 | Handling and Storage | |
| 7.1 | Handling | For use only by dental professionals. Follow good hygiene practices. Avoid direct, strong light sources, temperature extremes (>27°C/80°F, <5°C/40°F), contamination, cross contamination. Recap immediately after use. |
| 7.2 | Storage | Store tightly capped in original container at cool room temperature (<25°C). Avoid direct, strong light, sources of ignition, extremes of temperature. Shelf life for unopened product is two years from date of manufacture, provided that the material has been stored properly. |
| 7.3 | Specific uses | Provisional dental material |
| 8.0 | Exposure Controls / Personal Protection | |
| 8.1 | Exposure limit values | PEL: Not established. TLV: Not established. |
| 8.2 | Exposure controls | |
| 8.2.1 | Occupational exposure controls | No special equipment required under normal conditions of use of this product in the quantity provided. |
| 8.2.1.1 | Respiratory protection | Good general ventilation is sufficient to control any airborne. |
| 8.2.1.2 | Hand protection | Surgical gloves |
| 8.2.1.3 | Eye protection | Safety glasses |
| 8.2.1.4 | Skin protection | Good personal hygiene and safety practices; wear a lab coat. |
| 8.2.1.5 | Other controls | Emergency eye wash fountain. Wash hands after use. |
| 8.2.2 | Environmental exposure controls | Cure material before disposing. |
| 9.0 | Physical and Chemical Properties | |
| 9.1 | Characteristics | |
| 9.1.1 | Appearance / Color / Physical state | Two pastes: tooth-colored base; off-white catalyst |
| 9.1.2 | Odor | Faint, characteristic |
| 9.2 | Important health, safety and environmental information | |
| 9.2.1 | pH | Not determined |
| 9.2.2 | Boiling point | Not determined |
| 9.2.3 | Flash point | Not determined |
| 9.2.4 | Flammability (solid, gas) | Not applicable |
| 9.2.5 | Explosive properties | Not applicable |
| 9.2.6 | Oxidizing properties | Not determined |
| 9.2.7 | Vapor pressure | < 1 mm Hg |
| | | |

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| Safety Data Sheet | | | | |
|---|--|--|--|--|
| Trade Name: <i>Tuff-Temp™ Plus Provisional Veneer, Crown & Bridge Resin</i> | | | | |
| 9.2.8 | Specific gravity | 1.520 | | |
| 9.2.9 | Solubility in water | Nil | | |
| 9.2.10 | Partition coefficient | Not determined | | |
| 9.2.11 | Viscosity | Not determined | | |
| 9.2.12 | Vapor density | Not determined | | |
| 9.2.13 | Evaporation rate | Not determined | | |
| 10.0 | Stability and reactivity | | | |
| 10.1 | Conditions to avoid | Temperature > 27°C / 80°F, light, cross-contamination of parts. | | |
| 10.2 | Materials to avoid | Reducing and oxidizing agents, peroxides, amines. | | |
| 10.3 | Hazardous decomposition products | Under fire conditions and with amounts greater than that supplied in this product, hazardous polymerization may occur with heat build-up and release of carbon monoxide, carbon dioxide, and oxides of nitrogen. | | |
| 10.4 | Further information | Stable material if stored and used as directed. Polymerization will occur when light-sensitive material is exposed to direct light. | | |
| 11.0 | Toxicological information | | | |
| 11.1 | Acute toxicity | Not toxic. Minimal health hazard in the quantities present in this product and under normal conditions of use. | | |
| 11.2 | Irritation and corrosiveness | May be irritating to eyes, mucous membranes or skin on contact or with prolonged exposure. | | |
| 11.3 | Sensitization | May be sensitizing. Prolonged or frequent skin contact may cause allergic skin reactions in some susceptible individuals. | | |
| 11.4 | Sub-acute, sub-chronic and prolonged toxicity | Prolonged and/or frequent skin contact may cause allergic skin reactions in susceptible individuals. Prolonged exposure to large amounts (more than in this product) may cause eye and respiratory irritation. | | |
| 11.5 | Carcinogenicity, Mutagenicity, Reproductive Toxicity | None known | | |
| 11.6 | Empirical data | Testing confirmed biocompatibility of Tuff-Temp Plus. | | |
| 11.7 | Clinical experience | Tuff-Temp Plus has been on the market for more than four years with no reports of adverse events. | | |
| 12.0 | Ecological Information | | | |
| 12.1 | Ecotoxicity | Avoid release of uncured material into the environment. To the best of our knowledge, polymerized material is inert. No other information is available. Follow all government regulations. | | |
| 13.0 | Disposal Considerations | | | |
| 13.1 | Regulations | Follow all local and national government regulations in disposing material or contaminated packaging. | | |
| 14.0 | Transport Information | | | |
| 14.1 | Restrictions | None. Not regulated. | | |

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| 15.0 | Regulatory Information | |
|---|---|---|
| 15.1 EU Regulations Class IIa medical device under MDD 9. | | Class IIa medical device under MDD 93/42/EEC |
| 15.2 | US FDA | Class II medical device. |
| 15.3 | Health Canada | Class III medical device |
| 16.0 | Other information | |
| 16.1 | List of relevant R phrases | R36/37/38: Irritating to eyes, respiratory system and skin. R43: Sensitizing by skin contact. |
| 16.2 | Hazard Statements | H319: Eye irritation. Hazard category 2. H335: Specific Target Organ Toxicity - Single exposure; hazard category. 3. Respiratory tract irritation. H315: Skin irritation. Hazard category 2. H317: Skin Sensitization. Hazard category 1. |
| 16.3 | Precautionary Statements | P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P305 + P351: If in eyes, rinse cautiously with water for several minutes. P337 + P313: If eye irritation persists, get medical advice/attention. P302 + P352: If on skin, wash with plenty of soap and water. P333 + P313: If irritation or rash occurs, get medical advice / attention. P410 + P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F. |
| 16.4 | Restrictions on use | To be sold to and used by dental professionals only. |
| 16.5 | Further information | 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. |
| 16.6 | Sources of key data | National Institute for Occupational Safety (NIOSH) |
| | | US Occupational Safety and Health Administration (OSHA) |
| | | Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). |
| | | Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency |
| 16.7 | Information which has been added, deleted or revised. | This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format, Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified. |