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 1.2.2 1.2.3	Application / Use SIC Use Category	Dental material for use by dental professional only. 851 Human health activity 55
1.3	Manufacturer <b>Pulpdent Corporation</b> 80 Oakland Street, P.O. Box 780  Watertown, MA 02472 USA	Telephone: 1 617 926-6666 / Fax: 1 617 926-6262 Email: Pulpdent@pulpdent.com
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)
1.5	Authorized European Representative	Advena Limited Tower Business Centre, 2nd Floor, Tower Street, Swatar, BKR 4013 Malta

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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

Irritant; Xi; R 36/37/38 – 43 (See SECTION 16 for full text of risk phrases)

### 2.2 GHS Label Elements

Hazard Pictograms



2.1.2

Signal Word: WARNING

Restricted to use by dental professional only.

Classification according to Directive 67/548/EEC

## **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.

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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.

3.0	Composition					
3.1	Chemical characterization of the preparation:		Glass-filled methacrylate resins in a two-part, dual-cure paste.			
3.2	Hazardous ingredient	ts				
	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	ves and skin. May cau y data sheet to medical	nbranes or skin on contact. Avoid se sensitization by skin contact. personnel. Get medical attention	
4.2	Inhalation	Inhalation		Move to fresh air. If necessary, administer oxygen and/or artificial respiration. Seek medical attention.		
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 r	Precautions for first responders		Ventilate the area. Wear eye and skin protection.		
4.7	Information for physic	cians				
	Symptoms		Irritation or redness in eyes, throat or on skin.			
	Hazards		May be irritating to eyes, mucous membranes and skin. May cause sensitization by skin contact.			
	Treatment		As above under	r First Aid.		
5.0	Fire Fighting Measu	ires				
5.1	Suitable extinguishing	Suitable extinguishing media		Carbon dioxide, dry chemical, alcohol foam, or water fog. Water spray may be used to keep fire exposed containers cool.		
5.2	Extinguishing media	Extinguishing media to avoid		Do not use direct water stream		
5.3	Special exposure haz	zards in a fire	Heat may cause polymerization with rapid release of energy.			
5.4	Special protective eq	uipment for fire-fighters	Self-contained l	preathing apparatus		

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6.0	Accidental Release Measures		
6.1	Personal precautions.	Wear safety glasses, gloves and lab coat.	
6.2	Environmental precautions	Avoid releasing large amounts of uncured material into the environmen 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 o temperature. Shelf life for unopened product is two years from date or manufacture, provided that the material has been stored properly.	
7.3	Specific uses	Provisional dental material	
8.0	Exposure Controls / Personal Protection	ı	
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	

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9.2.6	Oxidizing properties	Not determined
9.2.7	Vapor pressure	< 1 mm Hg
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.

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14.0	Transport Information	
14.1	Restrictions	None. Not regulated.
15.0	Regulatory Information	
15.1	EU Regulations	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.

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