SAFETY DATA SHEETS

This SDS packet was issued with item:

075899570

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075899455 075899463 075899471 075899489 075899497 075899505 075899513 075899521 075899539 075899547

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MATERIAL SAFETY DATA SHEET: FLOWS-RITE™

IDENTITY Trade Name: FLOWS-RITE

Chemical Description: Glass filler materials in methacrylate resins.

Product Use: Flowable dental composite

SECTION I

Pulpdent Corporation Phone Numbers:

80 Oakland Street 24 Hour Emergency: 1-800-535-5053

Watertown, MA 02472 USA Customer Service: 1-800-343-4342 / 1-617-926-6666

Date prepared: September 1, 2008

SECTION II - HAZARDOUS INGREDIENTS

CAS Number PEL /TLV

MSDS: FLOWS-RITE

Uncured methacrylate resin mixture-------Not establishedAmorphous silica112945-52-56 mg/m³ / 10 mg/m³Sodium fluoride7981-49-42.5 mg/m³ (as F)

DOT HAZARD CLASSIFICATION:

WHMIS CLASSIFICATION:

D-2 possible irritant

NFPA HMIS RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 1

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Specific Gravity: 1.930 Vapor Pressure: <1 mm Hg Vapor Density: 1

Solubility in water: Nil Odor Threshold: Not established

Appearance and Odor: Thin paste with faint characteristic odor in universal and tooth shades.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: not established Flammable limits: not established

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam, or water fog are recommended. Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: A self-contained breathing apparatus should be worn by fire fighting personnel. Cool exposed containers with water spray to prevent polymerization under fire conditions.

Hazardous Combustion Products: Hazardous polymerization with heat build up and release of carbon monoxide, carbon dioxide and oxides of nitrogen may occur under fire conditions.

SECTION V - REACTIVITY DATA

Stability: Stable Conditions to avoid: Temperature >100°F, intense light.

Incompatibility: Reducing and oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Hazardous Polymerization: None under normal conditions of use. Conditions to avoid: Temperature >100°F, intense light.

REV: September 1, 2008 1 of 2

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SECTION VI - HEALTH HAZARD DATA

Summary of Acute Hazards: Minimal health hazard under normal conditions of dental practice. May be irritating to eyes, mucous membranes or skin on contact.

MSDS: FLOWS-RITE

Route of Exposure Signs & Symptoms

Inhalation May be irritating to mucous membranes

Eye Contact May be irritating Skin Absorption Not applicable

Skin Contact Primary route of exposure. May be irritating Ingestion May be irritating to mucous membranes.

Summary of Chronic Hazards: Methacrylate resins may be sensitizing in certain susceptible individuals.

Carcinogenicity None known
Teratogenicity None known.
Mutagenicity None known.
Reproductive Toxicity None known.

Emergency First Aid Procedures:

Inhalation Move to fresh air. Administer oxygen or artificial respiration as necessary and

seek medical attention for difficult breathing.

Eye contact Flush eyes under running water for 15+ minutes. Seek medical attention for

continued irritation or redness.

Ingestion Consult physician immediately.

Skin contact Wash skin with soap and water for 15+ minutes.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Handling and Storage Precautions: Keep tightly capped in original container. Avoid temperature extremes, intense light, moisture and contamination.

Release or Spill: Absorb and/or wipe up spill with suitable material (paper towels, cloths); collect for disposal. Wash area of spill with alcohol.

Waste Disposal Method: Follow all government regulations.

Other Precautions: Re-cap syringe immediately after use to prevent polymerization.

<u>SECTION VIII - CONTROL MEASURES</u>

Respiratory Protection: None required.

Ventilation: No special ventilation recommended under anticipated conditions of normal use.

Protective Gloves: Recommended.

Eye Protection: Safety glasses are recommended.

Other Protective Clothing or Equipment: Lab coat should be worn to protect skin; emergency eye wash fountain should be close

by and maintained.

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.

REV: September 1, 2008 2 of 2

Pulpdent Corporation Revision Date: May 28, 2019

Safety Data Sheet

Trade Name: PULPDENT FLOWS-RITE™				
1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Flows-Rite™ Multi-P	urpose Flowable Compos	ite & Veneer Cement
1.2 1.2.2	Application / Use SIC	Dental material for us 851 Human health ac	e by dental professional o	nly.
1.2.3	Use Category	55	uvity	
1.3	Manufacturer Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926 Email: <u>Pulpdent@pul</u>	6-6666 / Fax: 1 617 926-6 odent.com	262
1.4	Emergency Number	24 Hour Emergency:	1-800-535-5053 (USA)	
1.5	Authorized European Representative	Advena Ltd. Pure Offices, Plato Cl Warwick, CV34 6WE United Kingdom	ose	
2.0	Hazards Identification			
2.1	Classification	Irritant.		
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 (See SECTION 16 for full text of risk phrases)	Irritar	nt; Xi; R 36/37/38 - 43	
2.2	GHS Label Elements Hazard Pictograms			
	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.			

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.

Safety Data Sheet

Trade Name: **PULPDENT FLOWS-RITE**™

3.0	Composition				
3.1	Chemical characte	Chemical characterization of the preparation Glass filler materials in methacrylate resins.			
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 ester monomers	55-65%	Xi (Irritant), R36/37/38; R43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317
	112945-52-5	Amorphous silica	5 %	Xi (Irritant), R36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315
4.0	First Aid Measur	res			
4.1	General Informati	tion May be irritating to eyes, respiratory system and skin. Do not inhale vapors. May cause sensitization by skin contact. Show this safety data sheet to medical personnel. Seek medical attention in case of uncertainty.			
4.2	Inhalation		Move to fresh air. If necessary, administer oxygen, artificial respiration and seek medical attention.		
4.3	Skin Contact Take off contaminated clothing. Wash skin thoroughly with soap running water for 15 minutes.		skin thoroughly with soap and		
4.4	Eye Contact Keep eyelids apart and flush with running water for 15+ minutes medical attention.		ng water for 15+ minutes. Seek		
4.5	Ingestion		Rinse mouth with water. Do not induce vomiting. Seek immediate medica attention. May be irritating to mucous membranes.		
4.6	Precautions for fir	st responders	Ventilate the area. Wear eye and skin protection.		
4.7	Information for ph	ysicians	·		
	Symptoms		Irritation or redne	ess in eyes, throat or on s	skin.
	Hazards		May be irritatin sensitization by s		system and skin. May cause
	Treatment		As above under f	First Aid.	
5.0	Fire Fighting Me	Fire Fighting Measures			
5.1	Suitable extinguis	Suitable extinguishing media		dry chemical, alcohol forcep fire exposed contain	
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, especially in amounts greater than in this product.		
5.4			Self-contained breathing apparatus		
6.0	Accidental Relea	Accidental Release Measures			
6.1	Personal precauti	ons.	Ventilate area. W	ear safety glasses, glove	es, and lab coat.
6.2	Environmental pre	ecautions		d, spilled material. Cu Follow all government re	ured/set-up material is, to our egulations.

Safety Data Sheet

Trade Name: $PULPDENT\ FLOWS-RITE^{TM}$

6.3	Method for clean up	Wipe up spill with 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	Follow good hygiene practices. Remove applicator tip from syringe; cap container immediately after use. Keep light cure materials shaded from intense light sources.
7.2	Storage	Store product tightly capped in original container at cool room temperature (<25°C). Avoid direct/strong light, ignition sources, temperature extremes (>27°C/80°F, <5°C/40°F). Shelf life for unopened product is two years from date of manufacture, provided that the material has been stored properly.
7.3	Specific uses	Dental restorative 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.
8.2.1.1	Respiratory protection	Good general ventilation will control airborne vapors.
8.2.1.2	Hand protection	Usual surgical gloves will limit contact with uncured material.
8.2.1.3	Eye protection	Usual safety glasses
8.2.1.4	Skin protection	Good personal hygiene, safety practices; wearing a lab coat.
8.2.1.5	Other controls	Nearby emergency eye wash fountain. Wash hands after use.
8.2.2	Environmental exposure controls	Cure material before disposing.
9.0	Physical and Chemical Properties	Cure material before disposing.
	·	Cure material before disposing.
9.0	Physical and Chemical Properties	Tooth-colored paste
9.0 9.1	Physical and Chemical Properties Characteristics	
9.0 9.1 9.1.1	Physical and Chemical Properties Characteristics Appearance /Color / Physical state	Tooth-colored paste Faint, characteristic
9.0 9.1 9.1.1 9.1.2	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor	Tooth-colored paste Faint, characteristic
9.0 9.1 9.1.1 9.1.2 9.2	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in	Tooth-colored paste Faint, characteristic formation
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH	Tooth-colored paste Faint, characteristic formation Not determined
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point	Tooth-colored paste Faint, characteristic formation Not determined Not determined
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not determined
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3 9.2.4	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas)	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not determined Not applicable
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not determined Not applicable Not applicable
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5 9.2.6	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties Oxidizing properties	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not determined Not applicable Not applicable Not determined
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5 9.2.6 9.2.7	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties Oxidizing properties Vapor pressure	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not applicable Not applicable Not applicable Not determined < 1 mm Hg / 133 Pa / Id: B
9.0 9.1 9.1.1 9.1.2 9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5 9.2.6 9.2.7 9.2.8	Physical and Chemical Properties Characteristics Appearance /Color / Physical state Odor Important health, safety and environmental in pH Boiling point Flash point Flammability (solid, gas) Explosive properties Oxidizing properties Vapor pressure Specific gravity	Tooth-colored paste Faint, characteristic formation Not determined Not determined Not applicable Not applicable Not applicable Not determined < 1 mm Hg / 133 Pa / Id: B 1.930

Safety Data Sheet

Trade Name: *PULPDENT FLOWS-RITE*™

9.2.12 Vapor density 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	Avoid temperature extremes (>80°F / 27°C, <40°F/ 5°C/), intense light, moisture, contamination.
10.2	Materials to avoid	Reducing and oxidizing agents, peroxides, amines.
10.3	Hazardous decomposition products	Under fire conditions and with amounts far 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 if stored and used as directed. Polymerization will occur when light-cured 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) of this material may cause eye and respiratory irritation.
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
11.6	Empirical data	Not available
11.7	Clinical experience	Flows-Rite has been used safely and effectively for more than 15 years without any 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.
15.0	Regulatory Information	
15.1	EU	Class IIa medical device under MDD 93/42/EEC.
15.2	US FDA	Class II medical device

Trade Name: **PULPDENT FLOWS-RITE**™

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	Pulpdent products are 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 and 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.	

Revision Date: May 28, 2019