

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

075506829

**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).**

070501262 075506803 075506811

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PARKELL, INC.  
300 Executive Drive  
Edgewood, NY 11717

Company Telephone Number: (631) 249-1134  
24-Hour Emergency Phone: InfoTrac 1-800-535-5053

PRODUCT NAME: ABSOLUTE DENTIN™ (All Shades)

MSDS NO: S300, etc.

## SECTION 2 - COMPOSITION INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	PEL N/E	TLV N/E	%
Uncured Methacrylate Ester Monomers	N/A			
Benzoyl Peroxide	94-36-0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	
<u>Other ingredients:</u>				
Silane treated glass fillers, initiators and stabilizers				

## SECTION 3 - HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW:

## POTENTIAL HEALTH EFFECTS

EYES: May cause irritation and damage if not removed promptly.  
SKIN: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.  
INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.  
INGESTION: May be harmful if swallowed. Seek medical attention.

## CHRONIC EFFECTS:

## SIGNS &amp; SYMPTOMS:

## CARCINOGENICITY:

No NTP?

No IARC MONOGRAPHS?

No OSHA?

## SECTION 4 - FIRST-AID MEASURES

EYES: Flush with plenty of water. Contact physician.  
SKIN: Wash with soap and water.  
INHALATION: Remove to fresh air. If irritation persists, contact physician.  
INGESTION: Contact a physician immediately.

## NOTE TO PHYSICIANS:

## SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT (TCC): N/D FLAMMABLE LIMIT (air, % by vol.): UPPER: N/D LOWER: N/D  
FLAMMABILITY CLASSIFICATION (CFR 1910.1200):  
EXTINGUISHING MEDIA: Chemical Foam, CO<sub>2</sub>, Dry Chemical  
FIRE FIGHTING INSTRUCTIONS: Wear Self Contained Breathing Apparatus.  
UNUSUAL FIRE & EXPLOSION: Heat can cause polymerization with rapid release of energy.  
HAZARDS:  
HAZARDOUS COMBUSTION PRODUCTS:

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Absorb spills with inert material; keep spilled material in closed containers and dispose of as recommended. Avoid skin contact. Wear protective equipment.

## SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid skin contact. Wear protective equipment  
STORAGE: Store in a cool, dry place away from heat, sunlight, oxidizing, reducing agents and ignition sources.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Adequate ventilation to maintain PEL.  
EYE/FACE PROTECTION: Safety glasses or goggles.  
SKIN PROTECTION: Gloves - latex or other impervious rubber material.  
RESPIRATORY PROTECTION: Use in a well ventilated area.  
EXPOSURE GUIDELINES:

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colored paste with mild fruity ester-like odor.  
BOILING POINT: N/D SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 2.0  
VAPOR PRESSURE: Not Determined PERCENT VOLATILES:  
VAPOR DENSITY (Air = 1): Not Determined EVAPORATION RATE (Butyl Acetate = 1):  
SOLUBILITY IN WATER: Insoluble PH:

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable if stored as directed HAZARDOUS POLYMERIZATION: Will not occur when using clinical amounts of this material

CONDITIONS TO AVOID: Heat, sunlight, aging and contamination  
INCOMPATIBILITY (Materials to avoid): Oxidizing agents, reducing agents, peroxides and free radical initiators.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

## SECTION 11 - TOXICOLOGICAL INFORMATION

## SECTION 12 - ECOLOGICAL INFORMATION

## SECTION 13 - DISPOSABLE CONSIDERATIONS

Unpolymerized (uncured) material may be RCRA hazardous waste. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

## SECTION 14 - TRANSPORT INFORMATION (not meant to be all-inclusive)

PROPER SHIPPING NAME: N/A UN/NA NUMBER:  
DOT HAZARD LABEL:

## SECTION 15 - REGULATORY INFORMATION (not meant to be all-inclusive)

## SECTION 16 - OTHER INFORMATION

HMS CODES: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 2  
WORK/HYGIENIC PRACTICES: Handle in accordance with good personal hygiene and safety practices. These practices include: avoid unnecessary exposure and wash hands before eating, drinking or smoking.

DATE PREPARED: 01/22/14 PREPARED BY: R. Burke

To the best of our knowledge, the information on this MSDS sheet is accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness or completeness. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is not warranted to be accurate whether originating with the company or not.



# Safety Data Sheet

Issue Date: 20-Aug-2012

Revision Date: 03-Mar-2015

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Absolute Dentin (All Shades)

### Other means of identification

**SDS #** S300, ETC.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Dual-cure composite resin for core fabrication.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Parkell, Inc.  
300 Executive Drive  
Edgewood, NY 11717

### Emergency Telephone Number

**Company Phone Number** (631) 249-1134  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colored paste

**Physical State** Solid

**Odor** Mild fruity ester-like odor

### Classification

Skin sensitization

Category 1

### Signal Word

Warning

### Hazard Statements

May cause an allergic skin reaction



### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear protective gloves

**Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Silane treated glass fillers, initiators, and stabilizers	Proprietary	Proprietary
Uncured Methacrylate Ester Monomers	Proprietary	Proprietary
Benzoyl peroxide	94-36-0	Proprietary

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Call a physician.
<b>Skin Contact</b>	Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. Seek medical attention if irritation persists.
<b>Ingestion</b>	Call a physician or poison control center immediately.

**Most important symptoms and effects**

<b>Symptoms</b>	Direct contact may cause skin or eye irritation. Prolonged or excessive inhalation may cause respiratory tract irritation.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Chemical foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Heat can cause polymerization with rapid release of energy.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required. Avoid contact with eyes and skin.

**Environmental Precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Soak up with inert absorbent material. Place in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Avoid contact with skin and eyes.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from heat and incompatible materials.

**Incompatible Materials** Oxidizing agents. Reducing agents. Peroxides. Free-radical initiators.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silane treated glass fillers, initiators, and stabilizers	TWA: 1 fiber/cm <sup>3</sup> respirable fibers: length >5 μm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m <sup>3</sup> inhalable fraction	-	-
Benzoyl peroxide 94-36-0	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 1500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Trade Secret	TWA: 2 mg/m <sup>3</sup> inhalable fraction and vapor	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety goggles or glasses.

**Skin and Body Protection** Wear latex or other impervious rubber gloves.

**Respiratory Protection** Use in well-ventilated area.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Solid	<b>Odor</b>	Mild fruity ester-like odor
<b>Appearance</b>	Colored paste	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	2.0	(1=Water)
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization will not occur when using clinical amounts of this material.

### Conditions to Avoid

Heat. Avoid direct sunlight. Aging. Contamination.

### Incompatible Materials

Oxidizing agents. Reducing agents. Peroxides. Free-radical initiators.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	May cause an allergic skin reaction.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Do not taste or swallow.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 10837 mg/kg ( Rat )	-	-
Uncured Methacrylate Ester Monomers	= 1550 mg/kg ( Rat )	> 2000 mg/kg ( Rat ) > 3000 mg/kg ( Rabbit )	= 0.62 mg/L ( Rat ) 4 h
Benzoyl peroxide 94-36-0	= 6400 mg/kg ( Rat )	-	-
Trade Secret	= 890 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Benzoyl peroxide 94-36-0		Group 3		
Trade Secret		Group 3		

#### Legend

*IARC (International Agency for Research on Cancer)*

*Group 3 IARC components are "not classifiable as human carcinogens"*

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Uncured Methacrylate Ester Monomers		331 - 592: 48 h Leuciscus idus mg/L LC50		53: 48 h Daphnia magna mg/L EC50
Trade Secret	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	5: 48 h Oryzias latipes mg/L LC50		

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

Chemical Name	Partition Coefficient
Trade Secret	4.17

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Benzoyl peroxide 94-36-0	Toxic Ignitable Reactive

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG**  
**Marine Pollutant** This material may meet the definition of a marine pollutant



## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Silane treated glass fillers, initiators, and stabilizers	Present	X		Present		Present	X	Present	X	X
Uncured Methacrylate Ester Monomers	Present	X		Present		Present	X	Present	X	X
Benzoyl peroxide	Present	X		Present		Present	X	Present	X	X

#### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

### US Federal Regulations

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzoyl peroxide 94-36-0	X	X	X
Uncured Methacrylate Ester Monomers	X	X	X
Trade Secret	X	X	X

**16. OTHER INFORMATION****NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

**HMIS****Health Hazards****Flammability****Physical Hazards****Personal Protection**

2

1

2

Not determined

**Issue Date:** 20-Aug-2012**Revision Date:** 03-Mar-2015**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**