

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 ³ | 5 mg/m ³ | |
| <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 & 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, CO₂, 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 (H₂O = 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

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

Most important symptoms and effects

| | |
|-----------------|--|
| Symptoms | Direct contact may cause skin or eye irritation. Prolonged or excessive inhalation may cause respiratory tract irritation. |
|-----------------|--|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Chemical foam. Carbon dioxide (CO₂). 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 ³ 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 ³ inhalable fraction | - | - |
| Benzoyl peroxide 94-36-0 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³ | IDLH: 1500 mg/m ³ TWA: 5 mg/m ³ |
| Trade Secret | TWA: 2 mg/m ³ inhalable fraction and vapor | (vacated) TWA: 10 mg/m ³ | TWA: 10 mg/m ³ |

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

| | | | |
|-----------------------|----------------|-----------------------|-----------------------------|
| Physical State | Solid | Odor | Mild fruity ester-like odor |
| Appearance | Colored paste | Odor Threshold | Not determined |
| Color | 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

| | |
|---------------------|--------------------------------------|
| Eye Contact | Avoid contact with eyes. |
| Skin Contact | May cause an allergic skin reaction. |
| Inhalation | Avoid breathing vapors or mists. |
| Ingestion | 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