SAFETY DATA SHEETS

This SDS packet was issued with item:

075538368

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).

075538350 075538376

MSDS No: \$340, VAR. **MATERIAL SAFETY DATA SHEET** Page 1 of 2 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION PARKELL, Inc. Company Telephone Number: (631) 249-1134 300 Executive Drive 24-Hour Emergency Phone: InfoTrac 1-800-535-5053 Edgewood, NY 11717 PRODUCT NAME: SMARTEMP® (All Shades) MSDS NO: \$340, VAR. SECTION 2 - COMPOSITION INFORMATION ON INGREDIENTS HAZARDOUS COMPONENTS CAS NUMBER PEL NÆ TLV % Uncured Methacrylate Ester Monomers Dibutyl Phthalate 84-74-2 5 mg/m³ 5 mg/m³ Benzoyl Peroxide 94-36-0 5 mg/m3 5 mg/m³ Other ingredients: Inert mineral fillers and stablizers SECTION 3 - HAZAROS IDENTIFICATION EMERGENCY OVERVIEW: POTENTIAL HEALTH EFFECTS 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: No NTP? No IARC MONOGRAPHS? No OSHA? CARCINOGENECITY: SECTION 4 - FIRST-AID MEASURES Flush with water for 15 minutes. Contact physician. Wash with soap and water. INHALATION Remove to fresh air. If irritation persists, contact physician. INGESTION Contact a physician. 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 mert material, keep spilled material out of sewers SECTION 7 - HANDLING AND STORAGE HANDLING: STORAGE: Store in a cool, dry place away from heat and ignitions 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 SPECIFIC GRAVITY (H2O = 1). BOILING POINT: 1.8 Not Determined VAPOR PRESSURE: PERCENT VOLATILES:

EVAPORATION RATE (Butyl Acetate = 1):

VAPOR DENSITY (Air = 1):

Not Determined

MSDS No: S340, VAR. **MATERIAL SAFETY DATA SHEET** Page 2 of 2 SOLUBILITY IN WATER: PH: insoluble 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, aging and confamination INCOMPATIBILITY (Materials to avoid): Oxidizing 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: DOT HAZARD LABEL UN/NA NUMBER: SECTION 15 - REGULATORY INFORMATION (not meant to be all-inclusive) SECTION 16 - OTHER INFORMATION HEALTH -FLAMMABILITY -REACTIVITY -WORKHYGIENIC 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: 05/20/13 PREPARED BY

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 whether originating with the company or not.



Safety Data Sheet

Issue Date: 20-May-2013 Revision Date: 21-Nov-2014 Version 1

1. IDENTIFICATION

Product Identifier

Product Name SmarTemp® (All Shades)

Other means of identification

SDS# S340, VAR.

Recommended use of the chemical and restrictions on use

Recommended Use Composite Temporary Crown & Bridge Material.

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 Liquid Odor Mild fruity ester-like odor

Classification

Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed May be harmful in contact with skin

Signal Word

Danger

Hazard Statements

May cause an allergic skin reaction May damage fertility or the unborn child May cause respiratory irritation



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Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical attention if symptoms persist

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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-%
Uncured Methacrylate Ester Monomers	Proprietary	Proprietary
Silinated glass and silica fillers	Proprietary	Proprietary
Dibutyl phthalate	84-74-2	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

General Advice If exposed or concerned: Get medical advice/attention.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Seek medical attention if irritation persists.

Ingestion Get medical attention.

Most important symptoms and effects

Symptoms May cause an allergic skin reaction. May be irritating to skin and eyes. May cause

respiratory irritation. May be irritating to the mouth, throat and stomach.

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Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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.

Hazardous Combustion Products Carbon oxides.

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 protection recommended in Section 8.

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See **Environmental Precautions**

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

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 Contain and collect with an inert absorbent and place into an appropriate container for

disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

> protection recommended in Section 8. Avoid contact with skin, eves or clothing, Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked

up. Store away from heat, sparks, open flame or any other ignition source.

Incompatible Materials Oxidizing agents. Peroxides. Free radical initiators.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silanated glass and silica fillers	TWA: 1 fiber/cm3 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		
Dibutyl phthalate	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 4000 mg/m ³
84-74-2		(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
Benzoyl peroxide	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 1500 mg/m ³
94-36-0		(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

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 Liquid

AppearanceColored pasteOdorMild fruity ester-like odor

Color Not determined Odor Threshold Not determined

Property Values Remarks • Method

Not determined рH **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 1.8 (Water = 1)

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

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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.

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Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children. Avoid heat, aging, and contamination.

Incompatible Materials

Oxidizing 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. May be harmful in contact with skin.

Inhalation May cause respiratory irritation.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Uncured Methacrylate Ester Monomers	= 3300 mg/kg (Rat)	-	-
Silinated glass and silica fillers	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
Dibutyl phthalate 84-74-2	= 6300 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
Benzoyl peroxide 94-36-0	= 6400 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Sensitization May cause an allergic skin reaction.

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Silinated glass and silica		Group 3		
fillers				
Benzoyl peroxide		Group 3		
94-36-0		5.23p 5		

Legend

IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

Reproductive toxicity May damage fertility or the unborn child.

STOT - single exposure May cause respiratory irritation.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Silinated glass and silica fillers	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static		7600: 48 h Ceriodaphnia dubia mg/L EC50
Dibutyl phthalate 84-74-2	1.2: 72 h Desmodesmus subspicatus mg/L EC50 0.4: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	0.71 - 1.2: 96 h Pimephales promelas mg/L LC50 flow-through 0.31 - 5.45: 96 h Pimephales promelas mg/L LC50 static 1.24: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.24 - 5.3: 96 h Oncorhynchus mykiss mg/L LC50 static 1.38 - 1.74: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.42 - 1.28: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 10.9 mg/L 30 min EC50 = 10.9 mg/L 5 min EC50 = 11.1 mg/L 15 min EC50 = 2.2 mg/L 24 h	2.99: 48 h Daphnia magna mg/L EC50 Static 3.4: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Dibutyl phthalate 84-74-2	5.38

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

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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.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Dibutyl phthalate	U069	Included in waste stream:		U069
84-74-2		F039		

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Benzoyl peroxide	Toxic
94-36-0	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
Uncured Methacrylate Ester Monomers	Present	Х		Present		Present	Х	Present	Х	X
Silinated glass and silica fillers	Present	Х		Present		Present	Х	Present	Х	Х
Dibutyl phthalate	Present	Х		Present		Present	Х	Present	Х	Х
Benzoyl peroxide	Present	Х		Present		Present	Х	Present	Х	Х

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

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US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Dibutyl phthalate	10 lb		RQ 10 lb final RQ
84-74-2			RQ 4.54 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Dibutyl phthalate - 84-74-2	84-74-2	Proprietary	1.0
Benzoyl peroxide - 94-36-0	94-36-0	Proprietary	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dibutyl phthalate	10 lb	X	X	Χ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Dibutyl phthalate - 84-74-2	Developmental
, ,	Female Reproductive
	Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Silinated glass and silica fillers	X	Х	X
Dibutyl phthalate 84-74-2	Х	X	X
Benzoyl peroxide 94-36-0	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

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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