

SAFETY DATA SHEETS

This SDS packet was issued with item:

075533575

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

075533518 075533559 273000153 273012574



Safety Data Sheet

Issue Date: 23-Apr-2013

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name C&B Metabond Powders

Other means of identification

SDS # S396, VAR.

Recommended use of the chemical and restrictions on use

Recommended Use Dental Adhesive System.

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 Tan powder

Physical State Solid

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Metal Oxide	1314-23-4	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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact

Wash off immediately with plenty of water.

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic.

Hazardous Combustion Products Carbon monoxide.

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.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See 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 Sweep up and shovel into suitable containers 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, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from other materials which may cause cross-contamination.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zirconium Oxide 1314-23-4	STEL: 10 mg/m ³ Zr TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ Zr (vacated) TWA: 5 mg/m ³ Zr (vacated) STEL: 10 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr TWA: 5 mg/m ³ except Zirconium tetrachloride Zr STEL: 10 mg/m ³ Zr

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 Use safety glasses.

Skin and Body Protection Use rubber or PVC gloves.

Respiratory Protection No protection is ordinarily required under normal conditions of use and with adequate ventilation.

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	Not determined
Appearance	Tan powder	Odor Threshold	Not determined
Color	Tan		

Property	Values	Remarks • Method
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not applicable	
Flash Point	None	
Evaporation Rate	Not applicable	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not applicable	
Vapor Density	Not applicable	
Specific Gravity	1.96	(Water = 1)
Water Solubility	Nil	
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 does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Eye Contact**

Avoid contact with eyes.

Skin Contact

Avoid contact with skin.

Inhalation

Avoid inhalation of dust.

Ingestion

Do not ingest.

Component Information

Not available

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**Carcinogenicity**

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Polymethylmethacrylate (PMMA)		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

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

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.

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

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Zirconium Oxide	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
Zirconium Oxide 1314-23-4		X	

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

Issue Date:

23-Apr-2013

Revision Date:

13-Jan-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



CAUTION: Federal Law restricts this device to sale by or on the order of a properly licensed practitioner.

parkell *inc.*

INSTRUCTIONS FOR USE C&B-METABOND® ADHESIVE CEMENT

**SEE BACK PAGES FOR
MSDS INFORMATION**
(All ingredients listed on MSDS sheets)

DEVICE DESCRIPTION:

An adhesive cement that bonds to tooth structure, metals, resins and (when used with Parkell's Etch-Free™ porcelain liner) unetched ceramic surfaces.

INTENDED USE/INDICATIONS:

Cementation of low-retention cast crowns, inlays, onlays, endodontic posts, and resin-bonded bridges ... emergency reattachment of fractured teeth ... repairs of porcelain popoffs ... adhesive pulp caps of small exposures.

CONTRAINDICATIONS:

Not for use on or by persons who have a methacrylate sensitivity.

PRECAUTIONS:

Caution: Do not use C&B-Metabond® on surfaces that have been contaminated with eugenol (ZOE, etc.) as it will inhibit setting.

Caution: Prior application of Pain-Free™, varnishes or liners (copal varnish, Ca(OH)₂ or glass ionomer) is not recommended, as it will reduce or prevent adhesion.

Caution: Do not mix the adhesive while it is warm. C&B-Metabond begins setting rapidly. To prevent premature setting, always mix in the chilled porcelain dish.

Caution: Prevent contamination of surfaces being bonded. Whenever possible, use a rubber dam.

INDIVIDUALIZATION OF TREATMENT:

C&B-Metabond creates extremely high bond strengths that make recovery of the restoration difficult. It should not be used for cementing any restoration where there is a likelihood that removal will be necessary.

CONFORMANCE TO STANDARDS:

Parkell's quality system is certified to ISO 9001/ISO 13485.

HOW SUPPLIED:

C&B-Metabond may be purchased as a kit or individual components

- **C&B-Metabond Kit** - Stock No. S380

Contains Enamel Etchant, 2 Dentin

Activator (Blue), Silver Primer

Radiopaque Tooth-Shade Powder, C&B-Metabond Quick Base, Universal Catalyst and Ceramic Mixing Dish with thermometer.

Components (cap color):

- **Enamel Etchant (White)** - Stock No. S395, (5ml)
- **Dentin Activator Liquid (Green)** - Stock No. S393, (5ml)
- **Dentin Activator Gel (Brown)** - Stock No. S394
- **Clear L-Powder (Violet)** - Stock No. S399, (3g)
- **Radiopaque Tooth-Shade L-Powder (Green)** - Stock No. S396, (3g)
- **C&B-Metabond Quick Base (Blue)** - Stock No. S398, (10ml)
- **Catalyst Gold Label** - Stock No. S371, (0.7ml)

Purchase Separately

- **Etch-Free Kit** - Stock No. S390 (Proven effective with Parkell's C&B-Metabond and TotalBond cements). Contains Etch-Free Base and Catalyst. An adhesive primer that allows C&B-Metabond to adhere directly to unetched ceramic surfaces. Eliminates the need for hydrofluoric acid.

- **TotalBond™ MTL-V Primer** - Stock No. S413 (Proven effective with Parkell's C&B-Metabond and TotalBond cements). An adhesive primer that improves the stability of the bond to high-noble alloys in demanding applications. Eliminates need to tin-plate.

- **BluSep™** - Stock No. S385

A brush-on separating film that prevents C&B-Metabond and TotalBond from bonding to the exterior of the crown, adjacent teeth, gingiva, etc. Water-soluble so it can be washed off after use. Easily visible blue color.

CATALYST SYRINGE / CLEAN THE TIP AND RECAP IMMEDIATELY AFTER USE:

Prolonged exposure to air will degrade the catalyst. Immediately after each use, wipe the syringe tip with a paper towel to remove excess material. Then recap. Clogs can be easily

washed with a syringe of water.

(continued)