

SAFETY DATA SHEETS

This SDS packet was issued with item:

075338801

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

075338652 075338660 075338678 075338819

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).

075338751 075338793 075542600

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **TotalBond Powders (Light, Medium & Clear)** **STOCK NO:** S411L, M or D
DOT HAZARD LABEL: **UN NUMBER:**
DOT/UN SHIPPING NAME: **DATE PREPARED:** 01/10/11
NFPA CODES: **HEALTH -** **FLAMMABILITY -** **REACTIVITY -**

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>HAZARDOUS COMPONENTS</u>	<u>CAS NUMBER</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Zirconium Dioxide	1314-23-4			
Silica	7631-86-9			
Copolymer of Methacrylates				
Aromatic amine	N/A			

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: NA **SPECIFIC GRAVITY (H2O = 1):**
VAPOR PRESSURE: NA **Solubility in water:** Nil
VAPOR DENSITY (Air = 1): NA **Apparent density:** 0.39g/mL
APPEARANCE AND ODOR: Fine white powder with faint smell in bulk.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): >120°C **FLAMMABLE LIMIT (air, % by vol.)** Not applicable.
EXTINGUISHER MEDIA: Water fog, foam, dry chemical, carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: During emergency conditions, overexposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.
UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic gases such as carbon monoxide may be released in a fire.

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)

STABILITY: Stable under normal conditions.
CONDITIONS TO AVOID: Not established.
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur under normal conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID:

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☒ EYES ☒ SKIN ☐ INHALATION ☒ INGESTION
EMERGENCY OVERVIEW: Polymer powder with filler. Low hazard for ordinary office handling.
POTENTIAL HEALTH HAZARDS: No substantial hazard in normal use.

POTENTIAL HEALTH EFFECTS:

Eyes: May cause irritation.
Skin: Low hazard in ordinary use.
Ingestion: Low hazard in ordinary use.
Inhalation: Low hazard in ordinary use.

SIGNS & SYMPTOMS OF EXPOSURE:

CARCINOGENECITY: ☐ No NTP? ☐ No IARC MONOGRAPHS? ☐ NA OSHA?

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: No specific treatment is necessary by inhalation of a small amount. If exposed to excessive levels of dusts, remove to fresh air and get medical attention if cough or other symptoms develop.
EYES: Immediately rinse with plenty of water and seek medical advice.
SKIN: Wash material off with water.
INGESTION: Swallowing a small amount will not cause significant harm.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Observe normal office handling procedures. Store in a cool, dry and dark place.
OTHER PRECAUTIONS:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: In case material is released or spilled, sweep up and place in a chemical waste container. Flush spill area with water.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): Incinerate in accordance with all applicable environmental control regulations, or landfill in an industrial landfill that has approval to receive such wastes.

SECTION VII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION: None required during normal use of this product.
VENTILATION: Good general ventilation should be sufficient.
PROTECTIVE GLOVES: Use rubber or PVC gloves to prevent skin contact.
EYE PROTECTION: Use safety glasses.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station near work area. No special clothing required during normal use of this product.
WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.



Safety Data Sheet

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name TotalBond™ Powder

Other means of identification

SDS # S411

Recommended use of the chemical and restrictions on use

Recommended Use Dual-Cure, Adhesive Cement 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 White powder

Physical State Solid

Odor Faint

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-%
Zirconium Oxide	1314-23-4	Proprietary
Amorphous silica (glass)	7631-86-9	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.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops or persists.
Inhalation	No specific treatment is necessary for inhalation of a small amount. If exposed to excessive levels of dust, remove to fresh air and get medical attention if cough or other symptoms develop. If breathing is difficult, give oxygen and get medical attention.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms	May be irritating to skin and eyes.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Dry chemical. Carbon dioxide (CO₂). Water. Dry sand.

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. Flush spill area with water.

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. Protect container from physical damage.

Conditions for safe storage, including any incompatibilities

Storage Conditions

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

Incompatible Materials

Strong oxidizing agents.

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
Amorphous silica (glass) 7631-86-9	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO ₂) mg/m ³ TWA	IDLH: 3000 mg/m ³ TWA: 6 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

Chemical splash goggles or face shield.

Skin and Body Protection

Impervious protective 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

Appearance

White powder

Odor

Faint

Color

White

Odor Threshold

Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not applicable	
Flash Point	Not applicable	
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	Not determined	
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

Avoid high temperatures above 30°C (86DEGF), high humidity, and direct sunlight.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂).

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Amorphous silica (glass) 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h

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
Amorphous silica (glass) 7631-86-9		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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Amorphous silica (glass) 7631-86-9	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

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
Amorphous silica (glass)	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	
Amorphous silica (glass) 7631-86-9	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**

Not determined

Not determined

Not determined

Not determined

Issue Date: 06-Jan-2015

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Revision Note: New format

Disclaimer

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End of Safety Data Sheet

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**

Not determined

Not determined

Not determined

Not determined

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