



## Material Safety Data Sheet

**Product No. 821-4 Crystalbond™ 590**

**Issue Date (06-28-07)**

**Review Date (04-12-12)**

---

### Section 1: Product and Company Identification

**Product Name: Crystalbond™ 590**

Synonym: Mounting adhesive

#### Company Name

**Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477**

**Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.**

---

### Section 2: Composition / Information on Ingredients

<b>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</b>	<b>%</b>	<b>OSHA PEL mg/m3</b>	<b>ACGIH TLV mg/m3</b>	<b>NTP</b>	<b>IARC</b>	<b>OSHA regulated</b>
Shellac (ND)	90-95	NE	NE	No	No	No
Barium Sulphate (7727-43-7)	5-10	NE	10	No	No	No

---

### Section 3: Hazard Identification

#### Emergency overview

Appearance: Brown solid

Immediate effects: ND

#### Potential health effects

Primary Routes of entry: For product: ND

Signs and Symptoms of Overexposure: ND

Eyes: NA

Skin: If in molten state, exposure to skin will cause severe thermal burn.

Ingestion: NA

Inhalation: NA

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None

See Toxicological Information (Section 11)

#### Potential environmental effects

See Ecological Information (Section 12)

---

#### **Section 4: First Aid Measures**

##### **If accidental overexposure is suspected**

Eye(s) Contact: NA

Skin Contact: Treat for thermal burn. See physician.

Inhalation: NA

Ingestion: Contact physician.

##### **Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

---

#### **Section 5: Fire Fighting Measures**

Flash Point: >160 °C.

Flammable Limits: NA

Auto-ignition point: ND

Fire Extinguishing Media: Foam, carbon dioxide, dry powder.

Special Fire Fighting Procedures: Do not use water

Unusual Fire and Explosion Hazards: NA

Hazardous combustion products: Carbon monoxide, carbon dioxide.

DOT Class: None

---

#### **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: If material is unusable, sweep up and dispose of in a metal container.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

---

#### **Section 7: Handling and Storage**

Precautions to be Taken in Handling and Storage: Avoid excessive heat, sparks, open flame.

Storage temperature: Room temperature.

Storage Pressure: NA

---

#### **Section 8: Exposure Controls / Personal Protection**

##### **Engineering Controls**

Ventilation required: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed

##### **Personal Protection Equipment**

Respiratory protection: Where dust cannot be controlled in this way, personal respiratory protection should be employed

Protective gloves: Gloves recommended

Skin protection: Care should be taken when in molten state.

Eye protection: Goggles recommended.

Additional clothing and/or equipment: NA

##### **Exposure Guidelines**

See Composition/Information on Ingredients (Section2)

---

### **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Brown solid.

Odor (threshold): Odorless

Specific Gravity (H<sub>2</sub>O=1): 1.35

Vapor Pressure (mm Hg): 1.05

Vapor Density (air=1): 1

V.O.C. content (calculated): 0.705 gm/liter

Evaporation Rate (butyl acetate=1): Nil

Boiling Point: >400 °F (starts to decompose)

Freezing point / melting point: 225 °F

pH: NA

Solubility in Water: Nil

Molecular Weight: ND

---

### **Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Excessive heat, sparks, open flames.

Materials to Avoid (Incompatibility): ND

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur

---

### **Section 11: Toxicological Information**

Results of component toxicity test performed: ND

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

---

### **Section 12: Ecological Information**

Ecological Information: ND

Chemical Fate Information: ND

---

### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: ND

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

---

### **Section 14: Transportation Information**

US DOT Information: Proper shipping name: Not regulated.

IATA: Proper shipping name: Not regulated

IMO: Proper shipping name: Not regulated

Marine Pollutant: No

Canadian TDG: Not regulated.

---

## **Section 15: Regulatory Information**

### **United States Federal Regulations**

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA:

SARA Title III: Chemical components of this product which are present in reportable amounts and are listed in section 313 of the emergency planning and community right to know act of 1986 (SARA title III) are shown below with their CAS registry numbers and maximum composition by weight.

Listed chemical	CAS number	max wt %
-----------------	------------	----------

None

RCRA: ND

TSCA: Components Listed

CERCLA: None

### **State Regulations**

California Proposition 65: None listed.

### **International Regulations**

Canada WHMIS: ND

Europe EINECS Numbers: ND

---

## **Section 16: Other Information**

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Hazard Rating: Health: **0**; Fire: **0**; Reactivity: **0**

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

### **Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

---

## **Disclaimer**

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.