



Safety Data Sheet

Product No. 821-4 Crystalbond™ 590

Issue Date (6-1-15)

Review Date (11-6-15)

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)

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

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS Pictograms: NA

GHS Categories: NA

2.2 Label elements

Hazard Pictograms: NA

Signal Word: NA

Hazard Statements: NA

Precautionary Statements: NA

2.3 Other hazards

Health Effects:

NFPA Hazard Rating: Health: 1; Fire: 1; Reactivity: 0

HMIS® Hazard Rating: Health: 1; Fire: 1; Reactivity: 0

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

Results of PBT and vPvB assessment:

PBT: ND

vPvB: ND

Emergency overview

Appearance: Brown solid

Immediate effects: ND

Potential health effects

Primary Routes of entry: 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 3: Composition / Information on Ingredients

Principle Components (chemical and common names) (Cas. No)	%	OSHA PEL mg/m³	ACGIH TLV mg/m³	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Barium Sulfate (7727-43-7) EC-No. 231-784-4	20.0- 40.0%	10	10	No	No	No
Shellac (9000-59-3) EC-No. 232-549-9	60.0- 80.0%	NE	NE	No	No	No

Section 4: First Aid Measures**If accidental overexposure is suspected**

Eye(s) Contact: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. Hot fluid product: Cool burns with plenty of low-pressure water and get immediate medical attention.

Skin Contact: Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use. Hot Fluid: Immediately cool skin with water and cold packs for at least 15 minutes. Do not put ice directly on skin. Do not attempt to remove solidified wax from the skin as severe tissue damage may result. Get immediate medical attention.

Inhalation: Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

Ingestion: If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Section 5: Fire Fighting Measures

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Carbon dioxide, carbon monoxide.

DOT Class: None

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Personal protection: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill clean-up: Avoid breathing dust. Use vacuuming or sweeping compound for clean-up. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete clean-up.

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:

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing dust and vapors generated when melted. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills. Do not empty bags directly into vessels containing combustible vapors.

Storage: Store in an area that is cool, dry, and well ventilated. Water contamination should be avoided. Store in clean plastic or steel containers. Keep away from heat, sparks and open flame.

Storage temperature: Ambient

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: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.

Skin protection: Body-covering protective clothing and gloves.

Eye protection: Chemical goggles.

Additional equipment: Safety shower and eyewash fountain.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid brown stick.

Odor (threshold): Odorless (NA)

Specific Gravity (H₂O=1): 2.3

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Melting point: 80-120°C

Thermal decomposition: >160°C

pH: ND

Solubility in Water: Insoluble (soluble in acetone and alcohols)

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable

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

Materials to Avoid (Incompatibility): None

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide may be formed on burning. Heating in air may produce irritating acetaldehydes and acetic acid.

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: Slightly hazardous to water. Low ecological toxicity. Completely biodegradable.

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

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

SARA Title III:

Sections 302, 304, 313: Does not contain any reportable substance.

Sections 311, 312: Fire hazard – No; Reactivity hazard – No; Pressure hazard – No;

Immediate hazard – Yes; Delayed hazard – No.

RCRA: ND

TSCA: All components are listed.

CERCLA: No reportable quantity established for this material.

State Regulations

California Proposition 65: Not listed.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: See section 3.

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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