Section 1: Product and Company Identification
Product Name: Benzoyl peroxide paste (Component of 18350, GMA Kit)
Synonym: None
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

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoyl Peroxide (94-36-0)</td>
<td>~60</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP) (84-74-2)</td>
<td>~10</td>
<td>5</td>
<td>5</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Balance</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification
Emergency overview
Appearance: Thick, white paste.
Immediate effects: Causes skin and eye irritations. Benzoyl Peroxide is an oxidizing material. It can violently decompose at high temperatures.
Potential health effects
Primary Routes of entry: Ingestion, skin and eye contact, inhalation (from generation of vapors or mist).
Signs and Symptoms of Overexposure: ND
Eyes: Contact may cause eye irritation and/or damage.
Skin: Prolonged skin contact may cause skin irritation and redness.
Ingestion: May cause toxic effects.
Inhalation: May cause irritation of the nose, throat, and lungs.
Chronic Exposure: ND  
Chemical Listed As Carcinogen Or Potential Carcinogen: No  
See Toxicological Information (Section 11)  
**Potential environmental effects**  
See Ecological Information (Section 12)  

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**Section 4: First Aid Measures**  
**If accidental overexposure is suspected**  
Eye(s) Contact: Immediately flush with water for at least 15 minutes. Contact lenses should be removed if the initial flush doesn't wash them out. Get medical attention.  
Skin Contact: May cause irritation of the nose, throat, and lungs.  
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Give oxygen if needed. Get medical attention.  
**Note to physician**  
Treatment: ND  
Medical Conditions generally Aggravated by Exposure: ND  

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**Section 5: Fire Fighting Measures**  
Flash Point: ND  
Flammable Limits: ND  
Auto-ignition point: ND  
Fire Extinguishing Media: Water fog or spray, CO₂, Dry Chemical, Foam.  
Special Fire Fighting Procedures: Evacuate area and apply water from a safe distance. Spray water on the nearby peroxide containers to prevent overheating.  
Dot Emergency Guide No: 48  
Unusual Fire and Explosion Hazards: Peroxides and decomposition products are flammable and can ignite with explosive force if confined. Hazardous combustion products: On decomposition, Benzoyl peroxide paste can produce flammable & toxic vapors and PCBs (2,2',4,4' Tetrachlorobiphenyl). DOT Class: 5.2, Oxidizer.  

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**Section 6: Accidental Release Measures**  
Steps to be Taken in Case Material is Released or Spilled: Avoid skin contact. Flush with water. Sweep or scoop out and remove. Wet with water and remove with non-sparking tools.  
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.  

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**Section 7: Handling and Storage**  
Precautions to be taken in Handling and Storage: Do not store near combustibles. Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, mist, gas. Keep container closed. Empty container may contain hazardous residues. Keep away from heat (temperatures above 40°C (104°F)), Ignition sources,
sparks and open flames. Use explosion proof equipment. Keep away from all sources of heat and ignition such as radiators, steam pipes and direct sunlight.  
Other: For more safety data, see NFPA Bulletin 43B "Storage of Organic Peroxide Formulations". Store in original containers. Select storage areas in accordance with local laws and regulations.  
Storage temperature: Maximum 30°C (86°F)  
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection  
**Engineering Controls**  
Ventilation required: Sufficient to prevent accumulation of vapors or particulates.  
**Personal Protection Equipment**  
Respiratory protection: Use approved type for reducing contaminant concentration in inhaled air.  
Protective gloves: Neoprene, nitrile rubber, polyvinyl alcohol gloves.  
Skin protection: Chemical-resistant apron or coveralls may be needed.  
Eye protection: Eye protection must be worn. Use Splash goggles or Face Shield.  
Additional clothing and/or equipment: Safety shower and/or eye wash should be available.  
**Exposure Guidelines**  
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties  
Appearance and Physical State: Thick, white paste.  
Odor (threshold): Slight odor.  
Specific Gravity (H₂O=1): NA  
Vapor Pressure (mm Hg): ND  
Vapor Density (air=1): ND  
Percent Volatile by volume: ND  
Evaporation Rate (butyl acetate=1):  
Boiling Point: ND  
Freezing point / melting point: ND  
pH: ND  
Solubility in Water: ND  
Molecular Weight: NA

Section 10: Stability and Reactivity  
Stability: Stable under normal conditions.  
Conditions to Avoid: Ignition sources, temperatures above 40°C (104°F). Thermal decomposition contamination.  
Materials to Avoid (Incompatibility): Strong acids, strong alkalis, strong oxidizers, reducing agents, sulfur, accelerators and metal salts.  
Hazardous Decomposition Products: On decomposition, Benzoyl peroxide paste can produce flammable and toxic vapors & PCBs (2,2',4,4' Tetrachlorobiphenyl).  
Hazardous Polymerization: Will not occur.
Section 11: Toxicological Information
Results of component toxicity test performed: Oral: LD$_{50}$ >12,918 mg/kg (rats - 50% peroxide in Dibutyl Phthalate). Not a toxic substance by oral route.
Acute: Dermal (Skin): LD$_{50}$ >8000 mg/kg (rabbits - 50% peroxide in Dibutyl Phthalate). Not a toxic substance by dermal route.
Eye: Draize Score: Unknown, "Not an eye irritant" (based on rabbit tests with 50% peroxide in Dibutyl Phthalate).
Inhalation: LC$_{50}$: 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
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: Organic peroxide type D, solid (contains: Dibenzoyl peroxide)
Hazard Class: 5.2
Packaging group: II
UN Number: UN3106
IATA: Proper shipping name: Organic peroxide type D, solid (contains: Dibenzoyl peroxide)
Hazard Class: 5.2
Packaging group: II
UN Number: UN3106
IMO: Proper shipping name: Organic peroxide type D, solid (contains: Dibenzoyl peroxide)
Class: 5.2
UN Number: UN3106
Packing group: II
Marine Pollutant: Component: Dibutyl phthalate.
Canadian TDG: Organic peroxide type D, solid (contains: Dibenzoyl peroxide)

Section 15: Regulatory Information
United States Federal Regulations
SARA: 311 and 312: Benzoyl Peroxide (94-36-0); Fire Hazard, Yes. Acute Health Hazard: Yes. Chronic Health Hazard, Yes. Reactive Hazard, Yes. Sudden Release of Pressure Hazard, No.

SARA Title III: Section 313; Benzoyl Peroxide (94-36-0); Listed. Dibutyl phthalate (84-74-2); Listed

RCRA: Dibutyl phthalate (84-74-2). Code: U069

TSCA: All components are on the TSCA Inventory.

CERCLA: Dibutyl phthalate (84-74-2). RQ = 10 lbs.

State Regulations
California Proposition 65: WARNING! This product contains a chemical known to the state of California to cause birth defects or other reproductive harm. Chemical Name: Dibutyl phthalate (87-74-2).

International Regulations
Canada WHMIS: Classification, Benzoyl Peroxide (94-36-0): C, D2B, F. Dibutyl phthalate (84-74-2): D2A

Europe EINECS Numbers: ND

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Section 16: Other Information

Label Information: Oxidizer
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND

Estimated Hazard Rating: Health: 1; Fire: 2; Reactivity: 2
(0=least, 1=Sligh, 2=Moderate, 3=High, 4=Extreme)

Abbreviations used in this document
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

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