



### Material Safety Data Sheet

**Product No. 18023 JB-4 Solution A, Component of JB-4 Kit 18020**

**Issue Date (02-10-09)**

**Review Date (06-01-12)**

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#### Section 1: Product and Company Identification

**Product Name: JB-4 Solution A**

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.**

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#### 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>
2-Hydroxyethyl methacrylate (868-77-9)	85	NE	NE	No	No	No
2-Butoxy ethanol (111-76-2)	15	50 PPM	20 PPM	No	No	No
4-Methoxyphenol (150-76-5)	0.04	ND	5	No	No	No

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#### Section 3: Hazard Identification

##### Emergency overview

Appearance: Colorless liquid.

Immediate effects: Causes skin and eye irritation.

##### Potential health effects

Primary Routes of entry: Inhalation, skin contact, ingestion.

Signs and Symptoms of Overexposure: ND

Eyes: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin. May cause allergic skin reaction.

Ingestion: Harmful if ingested.

Inhalation: Harmful if inhaled.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None

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: Flush eyes with flowing water, separating eyelids with fingers for at least 15 minutes.

Skin Contact: Wash skin with deluge of water for at least 15 minutes

Inhalation: Remove to fresh air, contact medical personnel immediately.

Ingestion: If swallowed, contact medical personnel immediately

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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**Section 5: Fire Fighting Measures**

Flash Point: > 200 ° F

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: ND

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: ND

DOT Class: ND

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**Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Avoid contact. Collect and place in container for proper disposal

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: Avoid high temperatures

Storage temperature: Store at 25° C

Storage Pressure: NA

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

**Engineering Controls**

Ventilation required: Use process enclosures, local exhaust ventilation or other engineering controls

**Personal Protection Equipment**

Respiratory protection: Fume hood

Protective gloves: Gloves

Skin protection: Gloves and appropriate clothing

Eye protection: Safety glasses with side shields, goggles or face shield.

Additional clothing and/or equipment: ND

### **Exposure Guidelines**

See Composition/Information on Ingredients (Section2)

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

Appearance and Physical State: Colorless liquid

Odor (threshold): ND

Specific Gravity (H<sub>2</sub>O=1): 1.04

Vapor Pressure (mm Hg): 0.1 mbar @ 20° C

Vapor Density (air=1): > 1

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Freezing point / melting point: NIF

pH: ND

Solubility in Water: Miscible

Molecular Weight: NA

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

Stability: Stable

Conditions to Avoid: High temperatures.

Materials to Avoid (Incompatibility): Peroxides; azo compounds; heavy metal ions; tertiary amines; sulfur compounds.

Hazardous Decomposition Products: ND

Hazardous Polymerization: Will not occur

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

Results of component toxicity test performed: LD50 (oral rat): 5564 mg/Kg; LD50 (dermal rabbit): >3000 mg/Kg.

Human experience: ND

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

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

Ecological Information: ND

Chemical Fate Information: ND

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### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: None of the components are listed.

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

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

US DOT Information: Proper shipping name: Not regulated

IATA: Proper shipping name: Not regulated  
Domestic shipments only:  
IMO: Proper shipping name: Not regulated  
Marine Pollutant: No

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## **Section 15: Regulatory Information**

### **United States Federal Regulations**

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

SARA: None of components listed

SARA Title III: None of components listed

RCRA: None of components listed

TSCA: All components of this product are on the TSCA public inventory.

CERCLA: None of components listed.

### **State Regulations**

California Proposition 65: None of components listed

### **International Regulations**

Canada WHMIS: NIF

Europe EINECS Numbers: NIF

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## **Section 16: Other Information**

Label Information: Causes irritation to skin and eyes

European Risk and Safety Phrases: Harmful if inhaled or ingested

European symbols needed: NIF

Canadian WHMIS Symbols: NIF

Hazard Rating: Health: **2**; Flammability: **1**; Reactivity: **1**

(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

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## **Disclaimer**

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