

Safety Data Sheet

Product No. 18024 JB-4 Solution B, Component of JB-4 Kit 18020

Issue Date (11-15-13)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: JB-4 Solution B, Component of JB-4 Kit

Synonym:

Company Name

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

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

GHS Pictograms:



GHS Categories:

GHS07: Irritant

GHS08: Health Hazard

Hazard Overview:

Causes skin and eye irritation.

Harmful if absorbed through skin.

Harmful if inhaled.

May cause allergic skin reaction.

GHS Classification:

Acute Toxicity Inhalation Category 5

Skin Irritant Cat 2, Eye Irritation Cat 2B

Skin Irritant Category 2

Skin Sensitizer Category 1B

Signal Word: DANGER

Hazard Statements:

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

Precautionary Statements:

P285 In case of inadequate ventilation wear respiratory protection.

P301A IF SWALLOWED: Do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305B IF IN EYES: Separate eyelids with finger tips.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P351 Rinse cautiously with water for several minutes.
 P361 Remove/Take off immediately all contaminated clothing.

Health Effects:

NFPA Hazard Rating: Health: 2; Fire: 1; Reactivity: 0
 HMIS® Hazard Rating: Health: ND; Fire: ND; Reactivity: ND
 (0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.
 PBT: ND
 vPvB: ND

Emergency overview:

Appearance: Colorless liquid
 Immediate effects: ND

Potential health effects

Primary Routes of entry: Eye and skin contact, inhalation.
 Signs and Symptoms of Overexposure: ND
 Eyes: Causes eye irritation.
 Skin: Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
 Ingestion: Harmful if swallowed.
 Inhalation: Harmful if inhaled.
 Chronic Exposure: ND
 Chemical Listed As Carcinogen or Potential Carcinogen: Yes
 See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Poly(ethylene oxide) (25322-68-3)	91-100	NE	NE	No	No	No
Benzenamine, N, N-dimethyl (121-69-7)	6-10	25 mg	5 ppm 25 mg STEL	No	3	No

EINECS: 204-493-5			10 ppm 10 mg/m ³			
Acetaldehyde (75-07-0) EINECS: 200-836-8	0-5	360 mg	CEILING 25 ppm 45 mg/m ³	P	2B	No
1, 4-Dioxane (123-91-1) EINECS: 204-661-8	0-5	360 mg	20 ppm 72 mg	No	2B	No
Ethylene oxide (75-21-8) EINECS: 200-849-9	0-5	NE	1 ppm 1.8 mg	K	1	Z
Formaldehyde (50-00-0) EINECS: 200-001-8	0-5	STEL 2/15 mi ppm	CEILING 0.3 c ppm 0.37 mg/m ³	P	2A	Z

IARC: 1–The chemical is carcinogenic to humans; 2A–The chemical is probably carcinogenic to humans; 2B–The chemical is possibly carcinogenic

NTP: K–The chemical is known to be carcinogenic; P–The chemical may reasonably be anticipated to be carcinogenic.

OSHA: Z–The chemical appears at 29 CFR part 1910 Subpart Z.

*Airborne Exposure Limits: AIHA Workplace Environmental Exposure Level

(WEEL): Polypropylene glycols (25322-68-3): 8-hour TWA: 10 mg/m³, as an aerosol

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Separate eyelids with finger tips. Flush eyes with flowing water for at least 15 minutes.

Skin Contact: Remove contaminated clothing. Wash skin with deluge of water for at least 15 minutes. Wash with plenty of soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, contact emergency personnel.

Ingestion: If swallowed, wash out mouth with water if person is conscious. Do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: > 200

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: Not regulated.

Section 6: Accidental Release Measures

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

Absorb liquids on absorbent material. Contain spilled liquids. Protect personnel from exposure. Remove ignition sources. Use appropriate personal protective equipment. Ventilate the area.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations. See Section 13.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Use process enclosures, local exhaust ventilation, or other engineering controls.

Storage temperature: Room Temperature.

Storage Pressure: ND

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: Use fume hood.

Protective gloves: Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Skin protection: Use appropriate body/skin protective clothing.

Eye protection: Use eye protection in the form of safety glasses with side shields.

Additional clothing and/or equipment:

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Colorless liquid

Odor (threshold): ND

Specific Gravity (H₂O=1): 1.12

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Freezing point / melting point: ND

pH: ND

Solubility in Water: Complete

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat and open flame.

Materials to Avoid (Incompatibility): Oxidizing agents, acids, acid chlorides.

Hazardous Decomposition Products: ND

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: ND

Human experience: ND

This product **does** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen. See Section 2.

Section 12: Ecological Information

Ecological Information: ND

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification:

1, 4-Dioxane (123-91-1) Waste Code: U108

Acetaldehyde (75-07-0) Waste Code: U001

Benzenamine, N, N-dimethyl (121-69-7) Waste Code: Not listed.

Ethylene oxide (75-21-8) Waste Code: U115

Formaldehyde (50-00-0) Waste Code: U122

Poly (ethylene oxide) (25322-68-3) Waste Code: Not listed.

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.

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:

Ethylene oxide (75-21-8) is listed: 1000 TPQ (pounds) 10 EHS-RQ (pounds)

Formaldehyde (50-00-0) is listed: 500 TPQ (pounds) 100 EHS-RQ (pounds)

SARA Title III:

N,N-Dimethyl benzenamine (121-69-7), de minimis %:1.0, TRI: not listed.

1,4-Dioxane (123-91-1), de minimis %: 0.1, TRI: not listed.

Acetaldehyde (75-07-0), de minimis %: 0.1, TRI: not listed.

Ethylene oxide (75-21-8), de minimis %: 0.1, TRI: not listed.

Formaldehyde (50-00-0), de minimis %: 0.1, TRI: not listed.

RCRA: See Section 13.

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

CERCLA:

Acetaldehyde (75-07-0): RQ: 1000 lbs. (454 Kg)

Ethylene oxide (75-21-8): RQ: 10 lbs. (4.54 Kg)

Formaldehyde (50-00-0): RQ: 100 lbs. (45.4 Kg)

Benzenamine, N-dimethyl (121-69-7): RQ: 100 lbs.

1, 4-Dioxane (123-91-1): RQ: 100 lbs.

State Regulations

California Proposition 65: List below identifies those items which are known to the State of California to cause cancer.

Known to State of California to cause reproductive toxicity*.

Formaldehyde (50-00-0) is listed.

Acetaldehyde (75-07-0) is listed.

*Ethylene oxide (75-21-8) is listed.

1, 4-Dioxane (123-91-1) is listed.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers:

1, 4-Dioxane (123-91-1) EINECS: 204-661-8

Acetaldehyde (75-07-0) EINECS: 200-836-8

Benzenamine, N, N-dimethyl (121-69-7) EINECS: 204-493-5

Ethylene oxide (75-21-8) EINECS: 200-849-9

Section 16: Other Information

Label Information: Irritant, Health Hazard

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

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.