Section 1: Product and Company Identification
Product Name: PELCO® SEM-Gold/Silver Extender
Synonym: Propylene glycol methyl ether, Monopropylene glycol methyl ether, DOWANOL PM
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>1-Methoxy-2-Propanol (107-98-2)</td>
<td>≥99.5</td>
<td>ND</td>
<td>360 ppm</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-Methoxypropanol (1589-47-5)</td>
<td>0.29</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification
Emergency overview
Appearance: Clear liquid.
Immediate effects: May cause drowsiness or dizziness. Irritant. Target Organ Effect.
Target Organs: Liver, Kidney

Potential health effects
Primary Routes of entry: Inhalation, Skin absorption. Ingestion.
Signs and Symptoms of Overexposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Eyes: Causes eye irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness or dizziness.
Chronic Exposure: Prolonged or repeated skin contact may cause defatting and dermatitis. Repeated or prolonged exposure may cause CNS stimulation.

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 water as a precaution.

Skin Contact: Wash off with soap and plenty of water. Consult a physician

Inhalation: In inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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**Section 5: Fire Fighting Measures**

Flash Point: 34 °C (93 °F). Method: Closed cup

Flammable Limits: Lower explosion limit: 1.8% (V), Upper explosion limit: 16%.

Auto-ignition point: ND

Ignition Temperature: 278 °C (532 °F)

Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Flash back possible over considerable distance. Container explosion may occur under fire conditions. Vapors may form explosive mixture with air. Wear self contained breathing apparatus for fire fighting if necessary.

Unusual Fire and Explosion Hazards: May form peroxides of unknown stability.

Hazardous combustion products: Carbon oxides

DOT Class: Flammable

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**Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product to enter drains. Contain spillage and then collect in container for 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 inhalation of vapor or mist. Keep away from sources of ignition. Take measures to prevent the build up of
electrostatic charge. Keep container tightly closed in a dry and well ventilated place. Air sensitive, forms explosive peroxides on prolonged storage. May form peroxides on contact with air.
Storage temperature: Cool temperature
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Use in fume hood.

Personal Protection Equipment
Respiratory protection: Where risk assessment shows air purifying respirators are appropriate use a full face respirator.
Protective gloves: Wear protective gloves
Skin protection: Wear gloves
Eye protection: Wear face shield, or goggles
Additional clothing and/or equipment: ND

Exposure Guidelines
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Clear liquid.
Odor (threshold): ND
Specific Gravity (H₂O=1): 0.922 g/cm³ at 25 ºC (77 ºF)
Vapor Pressure (mm Hg): 14.5 hPa (10.9 mmHg) at 25 ºC (77 ºF)
Vapor Density (air=1): 3.11
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): ND
Boiling Point: 118-119 ºC (244-246 ºF)
Freezing point / melting point: -95 ºC (-139 ºF)
pH: ND
Solubility in Water: completely miscible.
Molecular Weight: Mixture, NA

Section 10: Stability and Reactivity
Stability: Stable under recommended storage conditions. May form peroxides on prolonged storage. Vapors may form explosive mixture with air.
Conditions to Avoid: Heat, flames and sparks.
Materials to Avoid (Incompatibility): Strong oxidizing agents.
Hazardous Decomposition Products: Under fire conditions: Carbon oxides.
Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information
Results of component toxicity test performed: Oral (mouse) LD50: 11,700 mg/kg, Oral (rat) LD50: 5660 mg/kg. Inhalation (rat) LC50: 10000 ppm/5 hr. Dermal skin (rabbit) LD50: 13,000 mg/kg.
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: 1-Methoxy-2-propanol
Hazard Class: 3
Packaging group: III
UN Number: UN3092
IATA: Proper shipping name: 1-Methoxy-2-propanol
Hazard Class: 3
Packaging group: III
UN Number: UN3092
Marine Pollutant: No
Canadian TDG: Proper shipping name: 1-Methoxy-2-propanol

Section 15: Regulatory Information
United States Federal Regulations
SARA Title III: 302: No. 313: No
RCRA: No
TSCA: 107-98-2 List on the TSCA inventory. 12b: None listed.
CERCLA: None
State Regulations
California Proposition 65: None
International Regulations
Canada WHMIS: Classification B2. 107-98-2 Listed on DSL

Section 16: Other Information
Label Information: Flammable liquid, Target organ effect, Irritant.
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND
HMIS® Hazard Rating: Health: 2; Chronic Health Hazard: *; Flammability: 3; Physical hazards: 0;
NFPA Hazard Rating: Health: 2; Fire: 3; 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.

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