Section 1: Product and Company Identification
Product Name: Fast Drying Silver Paint
Synonym: Electrodag 1415M, Fast drying silver Suspension
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: Hazard Identification
2.1 Classification of the substance or mixture

GHS Pictograms

GHS02  GHS07

GHS Categories
GHS02: Flammable
  Flam. Liq. 2   H225: Highly flammable liquid and vapor.
GHS07: Irritant
  Acute Tox. 4   H332: Harmful if inhaled.
  Eye Irrit. 2   H319: Causes serious eye irritation.
  STOT SE 3     H335: May cause respiratory irritation.

2.2 Label elements

Hazard Pictograms

GHS02  GHS07

Signal Word: DANGER
Hazard-determining components of labeling:
Methyl isobutyl ketone

Hazard statements
H225  Highly flammable liquid and vapor.
H332  Harmful if inhaled.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.

Precautionary statements
P101  If medical advice is needed, have product container or label at hand.
P102  Keep out of reach of children.
P103  Read label before use.
P210  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241  Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405  Store locked up.
P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards
HMIS® Hazard Rating: Health: 2; Flammability: 3; Physical: 0; Personal Protection: See Section 8
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Emergency overview
Appearance: Silver colored fluid
Odor: Solvent
Immediate effects: The substance is harmful by inhalation and is irritating to eyes and respiratory system. High concentrations will cause narcotic effects. The liquid degreases the skin.
Potential health effects
Primary Routes of entry: Skin contact. The substance may be absorbed into the body by inhalation, ingestion and through the skin. Formation of product mist when applied by spray, which could be inhaled.
Signs and Symptoms of Overexposure: High concentrations will cause narcotic effects.
Eyes: Irritating to eyes
Skin: The liquid degreases the skin. May cause irritation. A component in this product may be absorbed through the skin in harmful amounts. Prolonged cosmetic blue-gray discoloration of the skin and mucous membranes that is irreversible. Repeated exposure may cause skin dryness or cracking.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Harmful by inhalation. Irritating to respiratory system.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL PPM</th>
<th>ACGIH TLV PPM</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver (7440-22-4)</td>
<td>30-60</td>
<td>0.01mg/m³ TWA</td>
<td>0.1mg/m³ TWA</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>4-methylpentan-2-one* (108-10-1) WEL Short-term value: 416 mg/m³, EINECS: 203-550-1</td>
<td>25-50</td>
<td>100 PPM 410mg/m³ TWA</td>
<td>75 PPM STEL 20 PPM TWA</td>
<td>No</td>
<td>2B</td>
<td>No</td>
</tr>
<tr>
<td>Vinyl resin (Proprietary)</td>
<td>5-10</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Or *Methyl isobutyl ketone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Rinse immediately with water. Eye bath advisable. If irritation persists seek medical attention.

Skin Contact: Treat with a suitable cleaner and wash afterwards with water and soap. If irritation persists seek medical attention.

Inhalation: Move person to fresh air. If person feels unwell seek medical advice.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice.

Note to physician

Treatment: Treat symptomatically and supportively.

Medical Conditions generally Aggravated by Exposure: Eye, skin and respiratory disorders.
Section 5: Fire Fighting Measures
Flash Point: 14°C (57.2°F)
Flammable Limits: Explosive limits in air: Lower: 1.2%, Upper: 8%
Auto-ignition point: Product is not self-igniting.
Fire Extinguishing Media: Water mist, powder, carbon dioxide or foam.
Unsuitable media: Full water jet.
Special Fire Fighting Procedures: Use chemical protection suit and a self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Vapors may travel considerable distance to source of ignition and flash back.
Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
DOT Class: Flammable

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled:
Environmental precautions: Prevent substance entering soil, surface waters, water courses, sewers, basements and work pits.
Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment and clothing during clean-up. Eliminate ignition sources including sources of electrical, static or frictional sparks. Avoid skin, eye contact and inhalation.
Methods and material for clean-up: Absorb in earth or sand, collect in a suitable container and remove to a safe place. Clean area well.
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:
Storage: Keep away from heat, spark and flame. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not cut or weld on empty drums. Sufficient vapors from residues may be present to cause explosion and serious injury and/or death.
Handling: No smoking. Avoid contact with eyes, skin and clothing. Use protective gloves. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Wash thoroughly after handling.
Storage temperature: Store between 5°C (41°F) and 30°C (86°F).
Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection
Control Parameters
<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>108-10-1 Methyl isobutyl ketone</strong></td>
</tr>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
**Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th>BMGV</th>
<th>20 µmol/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium: urine</td>
<td></td>
</tr>
<tr>
<td>Sampling time: post shift</td>
<td></td>
</tr>
<tr>
<td>Parameter: Methyl isobutyl ketone</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Controls**
Ventilation required: Use in fume hood. Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Personal Protection Equipment**
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols.

Respiratory protection: Ventilation via local exhaust. In case of insufficient ventilation in closed rooms, wear suitable respiratory equipment.

Protective gloves: Use protective gloves impermeable/resistant to the substance.

Skin protection: Wear suitable protective clothing.

Eye protection: Safety goggles with side shields.

Additional clothing and/or equipment: ND

**Exposure Guidelines**
See Composition/Information on Ingredients (Section 3)

**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Silver colored fluid.
Odor (threshold): Solvent (ND)
Specific Gravity (H₂O=1): 1.63
Vapor Pressure (hPa): 7
Vapor Density (air=1): ND
Percent Volatile by volume: ND
VOC content: 41.7%

Evaporation Rate (butyl acetate=1): ND
Boiling Point: 116 °C (243.5 °F)
Freezing point: -85 °C (-121 °F)
pH: ND
Solubility in Water: Insoluble
Solids content: 57.5-59.0%
Molecular Weight: NA

**Section 10: Stability and Reactivity**
Stability: Stable.
Conditions to Avoid: Heat and incompatible materials.
Materials to Avoid (Incompatibility): Strong oxidants.
Hazardous Decomposition Products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Hazardous Polymerization: Will not occur.

**Section 11: Toxicological Information**

Results of component toxicity test performed:

LD/LC50 values relevant for classification: Methyl isobutyl ketone [108-10-1]

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>2080 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>16000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4h</td>
<td>8.3-16.6 mg/l</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Primary irritant effect:
- On the skin: Repeated exposure may cause skin dryness or cracking.
- On the eye: Irritating effect.
- Sensitization: No other information available.

Human experience: High concentrations will cause narcotic effects. The liquid degreases the skin.

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: Prevent contamination of soil, drains and surface waters. Contaminated waste water should be treated in a suitable cleaning plant. Product contains solvent(s). Very toxic to aquatic organisms.

Persistence and degradability: Prevent contamination of soil, drains and surface waters. Contaminated waste water should be treated in a suitable cleaning plant.

Bioaccumulative potential: ND

Mobility in soil: ND

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information: ND

**Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: D001. If discarded, this product is considered a RCRA ignitable waste. This product contains a component identified as hazardous under 40CFR 261.24. U161: Methyl isobutyl ketone.

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: 1263 Paint, solution

Hazard Class: 3

Packaging group: II

UN Number: UN1263

IMDG: Proper shipping name: 1263 Paint, solution
Hazard Class: 3
Packing group: II
UN Number: UN1263
IATA: Proper shipping name: 1263 Paint, solution
Hazard Class: 3
Packing group: II
UN Number: UN1263
Marine pollutant: No
Canadian TDG: Proper shipping name: 1263 Paint, solution

Section 15: Regulatory Information
United States Federal Regulations
SARA (Section 302): None above reporting de minimis.
SARA (Section 313): This product contains the following toxic chemicals subject to this section’s reporting requirements:
   Methyl isobutyl ketone (CAS# 108-10-1)
SARA Title III (Section 311/312): Immediate Health, Fire
RCRA: D001
TSCA: All components are listed or exempt from reporting. Export Notification: None above reporting de minimis.
CERCLA: Reportable Quantities (RQ):
   Methyl isobutyl ketone (CAS# 108-10-1) 5,000 lbs. (2,270 kg)
State Regulations
California Proposition 65: This product contains a chemical known in the State of California to cause cancer and birth defects or other reproductive harm.
International Regulations
Canada WHMIS: B.2, D.2.B
CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Europe EINECS Numbers: ND

Section 16: Other Information
Label Information: Flammable
European Risk and Safety Phrases: 11-20-36/37-66
European symbols needed: F + Xn
Canadian WHMIS Symbols: ND
Abbreviations used in this document
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

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