Material Safety Data Sheet

Product No. 1556 Grid Coating Pen

Issue Date (08-28-95)
Review Date (05-04-12)

Section 1: Product and Company Identification
Product Name: Grid Coating Pen
Synonym: Coat-Quick™ G Pen
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>1,1,1-Trichloroethane (71-55-6)</td>
<td>ND</td>
<td>1900</td>
<td>1900</td>
<td>No</td>
<td>Group 3</td>
<td>No</td>
</tr>
<tr>
<td>Resin (64742-16-1)</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Solvent and resin are contained in Pen.

Section 3: Hazard Identification
Emergency overview
Appearance: Pen, Ink is colorless and solvent odor
Immediate effects: ND

Potential health effects
Primary Routes of entry: Not expected to happen as a pen.
Signs and Symptoms of Overexposure: ND
Eyes: Mild to severe irritation to eyes.
Skin: Slight irritation to skin.
Ingestion: May be harmful if swallowed
Inhalation: May be harmful if inhaled.
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: See Toxicological Information (Section 11)

Potential environmental effects
See Ecological Information (Section 12)
Section 4: First Aid Measures

If accidental overexposure is suspected
Eye(s) Contact: Flush eyes with plenty of water, seek medical help.
Skin Contact: Wash thoroughly with soap and water.
Inhalation: Not expected to happen as a pen. In high concentrations the vapors may have a narcotic effect.
Ingestion: Not expected to happen as a pen. Seek medical help

Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: Resin: 550 ºF, 1,1,1-Trichloroethane (71-55-6): ND
Flammable Limits: ND
Auto-ignition point: Resin: ND, 1,1,1-Trichloroethane (71-55-6)): 998.6 ºF
Fire Extinguishing Media: ND
Special Fire Fighting Procedures: ND
Unusual Fire and Explosion Hazards: ND
Hazardous combustion products: May decompose and emit toxic chloride fumes if exposed to high temperatures
DOT Class: ND

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: In case the liquid is spilled or leaks from the pen, soak up liquid with cotton or sponge.
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: Normal handling is acceptable. This type of liquid is to be used by well experience technicians. Store at room temperature and keep away from heat, open flame and small children.
Storage temperature: Ambient.
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Recommend working in well ventilated area or chemical hood.

Personal Protection Equipment
Respiratory protection: Work in well ventilated area.
Protective gloves: Normally not required, wear gloves if contact may occur.
Skin protection: Normally not required.
Eye protection: Normally not required.
Additional clothing and/or equipment: Normally not required.

Exposure Guidelines
Section 9 Physical and Chemical Properties
Appearance and Physical State: Solvent and resin are contained in Pen.
Odor (threshold): ND
Specific Gravity (H₂O=1): 1.4 g/L
Vapor Pressure (mm Hg): 40 mm Hg
Vapor Density (air=1): 0.8
Percent Volatile by volume:
Evaporation Rate (butyl acetate=1):
Boiling Point: 80°C
Freezing point / melting point: NA
pH: ND
Solubility in Water: 1.5
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: Stable
Conditions to Avoid: Keep away from heat and open flame.
Materials to Avoid (Incompatibility): ND
Hazardous Decomposition Products: Nonflammable, but may decompose and emit toxic chloride fumes if exposed to high temperatures. Used as a solvent.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: 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
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: Not regulated
IATA: Proper shipping name: ND
IMO: Proper shipping name: Not regulated.
Marine Pollutant: No
Canadian TDG: Not regulated.
**Section 15: Regulatory Information**

**United States Federal Regulations**
- SARA: ND
- SARA Title III: ND
- RCRA: ND
- TSCA: ND
- CERCLA: ND

**State Regulations**
- California Proposition 65: None listed

**International Regulations**
- Canada WHMIS: ND
- Europe EINECS Numbers: ND

**Section 16: Other Information**

**Label Information:** ND
**European Risk and Safety Phrases:** ND
**European symbols needed:** ND
**Canadian WHMIS Symbols:**
- Hazard Rating: Health: ND; Fire: ND; Reactivity: ND
  (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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