Section 1. Identification of the Substance/Preparation and Company

PRODUCT NAME: TP-3840
DESCRIPTION: Fluorescent Universal A/C Dye for R/12 and R-134a Systems
EMERGENCY TELEPHONE #: 800-424-9300 (24 HOURS) CHEMTREC; call collect outside continental U.S.: 703-527-3887.
PRODUCT INFORMATION: Spectronics Corporation, 956 Brush Hollow Road, Westbury, NY 11590, 800-641-1133.

Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Common Name/Chemical Name</th>
<th>CAS Number</th>
<th>% W</th>
<th>PEL (mg/m³)</th>
<th>TLV (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricant Oil</td>
<td>See Below</td>
<td>50-70</td>
<td>5*</td>
<td>5*</td>
</tr>
<tr>
<td>Fluorescent Dye</td>
<td>See Below</td>
<td>30-50</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Fluorescent Dye: The specific identity has been withheld as a trade secret. New Jersey Trade Secret Registry Number NJ TSRN 80100023-5002P.
Lubricant Oil: The specific identity has been withheld as a trade secret. New Jersey Trade Secret Registry Number NJ EIN 80100312-5004P

*Airborne Oil Mist Exposure Limits: Lubricant Oil
ACGIH TLV: 5 mg/m³, 8 hr
ACGIH STEL: 10 mg/m³
OSHA PEL: 5 mg/m³, 8 hr

Section 3. Hazards Identification

EMERGENCY OVERVIEW: May cause eye, skin and respiratory system irritation.
Primary Routes of Exposure: Eye. Skin. Inhalation (breathing).
Eye Contact: Can cause mild irritation. Skin Contact: Irritation can occur following prolonged or repeated contact. Inhalation (breathing): Processing vapors can possibly cause irritation to the upper respiratory tract. Ingestion (swallowing): Ingestion can cause gastrointestinal irritation. Aggravation of Existing Conditions: A review of available data does not identify any worsening of any existing medical conditions.

Carcinogenicity:
<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricant Oil</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Fluorescent Dye</td>
<td>No</td>
<td>No</td>
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<td>No</td>
</tr>
</tbody>
</table>

HMIS HAZARD RATING: Health: 1, Fire: 1, Reactivity: 0.

Section 4. First-Aid Measures

Eye Contact: Flush eyes with water for 15 minutes. If irritation develops, consult a physician. Skin Contact: Wash affected area with soap and water. If irritation develops, consult a physician. Inhalation (breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration. Ingestion (swallowing): Call a physician immediately. Induce vomiting only as directed by medical personnel.

Section 5. Fire-Fighting Measures

Flash Point: 500°F (260°C); Test Method: CC; Explosive Limit: LEL(%): Not Determined; UEL(%): Not Determined; Autoignition Temperature: Not Determined. Hazardous Combustion and Decomposition Products: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of nitrogen. Fire and Explosion Hazards: May liberate irritating or toxic vapors during combustion or decomposition. Extinguishing Media: Small Fires: Use dry chemical, carbon dioxide, halon, water, spray, or foam. Large Fires: Water spray, fog, or alcohol foam.

Section 6. Accidental Release Measures

Spill Containment and Recovery: Contain with absorbent material such as clay, soil or any commercially available absorbent Shovel reclaimed dye and absorbent into recovery or salvage drums for disposal. Stop material from contaminating soil, or from entering sewers or bodies of water. Collection and Disposal: Dispose of according to applicable local, state and federal regulations.
Section 7. Handling and Storage
Storage Conditions: Store in a cool, dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Always keep containers tightly closed. Special Warning: Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Personal Hygiene: Wash thoroughly after handling. Empty Container Precautions: Do not reuse empty container for any purpose.

Section 8. Exposure Controls/Personal Protection
Engineering Controls/Ventilation: Maintain airborne concentrations below the established exposure limits (see PEL and TLV in section 2) by providing adequate ventilation. Eye Protection: Wear safety goggles. An eye wash facility should be readily available. Skin Protection: Wear protective clothing and appropriate impervious gloves. Respiratory Protection: Avoid breathing vapor and/or mist. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties
Appearance: Amber; Odor: Mild; Physical State: Liquid; Specific Gravity (Water = 1): 0.98; Vapor Pressure 68°F (20°C): < 0.01 mmHg @ 20°C; Vapor Density (Air = 1): > 1; Percent Volatile by Volume (%): 0; Evaporation Rate (Butyl Acetate = 1): < 0.01; Solubility in Water: Not Soluble; pH: Not Applicable; Boiling Range: > 400 °F (204°C).
Note: The physical data presented above are typical values and should not be construed as a specification.

Section 10. Stability and Reactivity

Section 11. Toxicological Information

<table>
<thead>
<tr>
<th></th>
<th>Fluorescent Dye*</th>
<th>Lubricant Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Rat</td>
<td>Not available</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>Rabbit</td>
<td>Not available</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Rat</td>
<td>Slight to mild irritation</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Rabbit</td>
<td>Irritation</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>Rabbit</td>
<td>Irritation</td>
</tr>
</tbody>
</table>

*Fluorescent Dye: Negative results were obtained in the Ames test. Negative results were obtained in the micronucleus assay.

Section 12. Ecological Information
No data are available on this product.

Section 13. Disposal Considerations
Disposal: Dispose of in accordance with all local, state, and federal regulations. Special Instructions: Be sure to contact the appropriate government environmental agencies if further guidance is required.

Section 14. Transport Information
DOT Shipping Name: Not Regulated; DOT Label: Not Applicable; DOT Identification No.: Not Applicable; Nonregulated shipments by air under 49 CFR, IATA/ICAO AND IMO.
Section 15. Regulatory Information

U.S. Federal Regulatory Information:
This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III Information:

TSCA: The chemical components of this product are contained on the Section 8(B) Chemical Substance Inventory List (40 CFR 710).

CERCLA: No regulated ingredients.

State Right-To-Know:
Pennsylvania - New Jersey R-T-K:

<table>
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<tr>
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<tr>
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<td>80100023-5002P</td>
<td>30-50</td>
</tr>
</tbody>
</table>

California - California Proposition 65: No regulated ingredients.
CARCINOGEN: None; TERATOGENIC: None; BOTH CARCINOGEN AND TERATOGENIC: None

Section 16. Other Information

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions (in addition to those described herein) are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made here under with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the users to comply with all applicable federal, state and local laws and regulations.

NA = Not Available

End of Material Safety Data Sheet