

Everco Part No. A5784, A50504 Four Seasons Part No. 59045, 59226 Murray Part No. 400503, 400504
ANDREAS HABERLAND, SPECTRONICS CORPORATION FLUORESCENT DYE

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MATERIAL SAFETY DATA SHEET

Revised: 2/29/00 MDS ID:Tp3870s Andreas Haberland, Spectronics Corp. Pg 1

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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Product Name: TP-3870, TP-3875, TP-3876, and TP-3877
Fluorescent Dye for Mobile AC&R Systems, R-134a/Polyol Esters
Use: Leak Detection

MANUFACTURER:
Andreas Haberland, Spectronics Corp.
956 Brush Hollow Rd
Westbury, NY 11590

Emergency Telephone No. (24 hours): Chemtrec, 1-800-424-9300
For calls originating outside continental U.S.: 202-483-7616

For product information call 800-641-1133. For calls originating outside
the continental U.S.: 516-333-1254.

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Section 2 - HAZARDOUS INGREDIENTS

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Prod.	Common/Chemical Name	CAS Number	%W	Pel(mg/m3)	V(mg/m3)
TP-3870	Lubricant Oil	See Below	20-40	NA	NA
	Fluorescent Dye	See Below	50-70	5*	5*
TP-3875	Lubricant Oil	See Below	40-60	NA	NA
	Fluorescent Dye	See Below	40-60	5*	5*
TP-3876	Fluorescent Dye	See Below	40-60	NA	NA
	Lubricant Oil	See Below	40-60	5*	5*
TP-3877	Fluorescent Dye	See Below	30-60	NA	NA
	Lubricant Oil	See Below	30-60	5*	5*

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

Fluorescent Dye: 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

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Section 3 - HAZARDS IDENTIFICATION

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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: Exposure to this product is not expected to contribute to, worsen or aggravate any existing medical conditions.

Carcinogenicity:	ACGIH	IARC	NTP	OSHA
Lubricant Oil	No	No	No	No
Fluorescent Dye	No	No	No	No

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

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Section 4 - FIRST AID MEASURES

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Eye Contact: Flush eyes with plenty of water for 15 minutes. If irritation develops, consult a physician.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation develops, consult a physician. Wash contaminated clothing separately before reuse.

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.

Note to Physician: Treatment should be directed at preventing absorption, administering to the symptoms as they occur, and providing supportive therapy.

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Section 5 - FIRE FIGHTING MEASURES

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Flash Point: 500F (260C)

Method: COC

Explosive Limit: LEL(%): Not Determined

UEL(%): Not Determined

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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: Based on the NFPA guide, use dry chemical, carbon dioxide, or alcohol foam suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

Fire-Fighting Procedures/Equipment: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved, positive-pressure, self-contained breathing apparatus (SCBA) and full protective clothing.

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Section 6 - ACCIDENTAL RELEASE MEASURES

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Spill Containment and Recovery: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed dye and absorbent into a recovery or salvage drums for disposal.

Disposal: Either incinerate or land fill in accordance with applicable local, state and federal regulations.

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Section 7 - HANDLING AND STORAGE

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Storage Conditions: Store in a cool, dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Always keep containers tightly closed.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, or using restroom facilities. Contaminated clothing and shoes should be thoroughly cleaned and dried before reuse.

Empty Container Precautions: Empty containers can retain product residues. Do not reuse empty container for food, clothing, or products for human or animal consumption or where skin contact may occur.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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Engineering Controls/Ventilation: Maintain airborne concentrations below the established exposure limits (see PEL and TLV in section 2) by providing adequate ventilation. General (dilution) ventilation may be acceptable, however, local exhaust ventilation is recommended when vapors mists, or dusts can be released.

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Eye Protection: Wear safety goggles. An eye wash facility should be readily available.

Skin Protection: Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, always consult glove manufacturer to determine the proper type for specific operation.

Respiratory Protection: Avoid breathing vapor and/or mist. If occupational exposure limits are exceeded wear NIOSH/OSHA approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR = 1910.134.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: Amber

Odor: Mild

Physical State: Liquid

Specific Gravity: (Water=3D1): 0.98

Vapor Pressure: 68 F (20 = C): < 0.01 mmHg @ C

Vapor Density (Air=3D1): >1

Percent Volatile by Volume (%): 0

Evaporation Rate (Butyl Acetate=3D1): < 0.01

Solubility in Water: None

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.

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Section 10 - STABILITY AND REACTIVITY

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Chemical Stability: Stable under normal conditions of storage and use.

Conditions to Avoid: High temperatures. Source of ignition.

Incompatibility with other Materials: Oxidizers and reducers.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Combustion may produce carbon monoxide and carbon dioxide.

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Section 11 - TOXICOLOGICAL INFORMATION

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No data available.

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Section 12 - ECOLOGICAL INFORMATION

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No data are available on this product.

Section 13 - DISPOSAL CONSIDERATIONS

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Disposal: Dispose of in accordance with all local, state, and federal regulations.

General Statements: Federal regulations may apply to empty container. 1 State and /or local regulations may be different.

General Recommendations: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based on environmental acceptability:

- (1) recycle or rework if at all feasible,
- (2) incinerate at an authorized facility
- (3) treat at an acceptable waste treatment facility.

Special Instructions: Be sure to contact the appropriate government environmental agencies if further guidance is required.

Section 14 - TRANSPORT INFORMATION

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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

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U.S. Federal Regulatory Information:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III Information:

Ozone-Depleting Chemicals: No regulated ingredients. Section 302

Extremely Hazardous Substances: No regulated ingredients. Section 302

Reportable Quantity: Not Applicable. Section 311/312-Hazard Categories

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

Immediate (Acute) Health Hazard: No

Delayed (Chronic) Health Hazard: No.

Section 313-Toxic Chemicals: No regulated ingredients.

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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:

NAME	NJ EIN
Lubricant Oil	80100312-5002P
Fluorescent Dye	80100312-5004P

California - California Proposition 65: No regulated ingredients.

CONEG: None.

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Section 16 - OTHER INFORMATION

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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 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 hereunder with respect to the information contained herein or the 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.