

### Section 1: Identification

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**GHS Product Identifier:** GS-1/E

**Other Names:** GS-1/ECS, GS-1E/J

**Use of Product:** Leak Detection

**Description:** Fluorescent Dye for Air Conditioning Systems

**Company Information:**

Spectronics Corporation

956 Brush Hollow Road

Westbury, New York 11590

800-274-8888

516-333-4840 (for calls originating outside continental U.S.)

[sds@spectroline.com](mailto:sds@spectroline.com)

**Emergency Contact:**

US & Canada 800-424-9300 (24 HOURS) CHEMTREC; Call collect outside continental US & Canada: 703-527-3887.

### Section 2: Hazardous Identification

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**Pictogram:** No Pictogram required

**Signal Word:** None

**Physical Hazards:** Not Classified

**Health Hazard:** This product is not classified as hazardous according to OSHA 1910.1200.

**Environmental Hazard:** No known significant effects or critical hazards

**HMIS Hazard Rating:** Health: 1, Fire: 1, Reactivity: 0.

#### 2.1 GHS Label Elements:

This product is not classified as hazardous according to the GHS.

#### 2.2 CLP Label Elements:

This product is not classified as hazardous according to Regulation EC 1272/2008 (CLP)

### Section 3: Composition/Information on Ingredients

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**Chemical Identity:** GS-1/E

**Synonyms:** See Section 1 Above

Common Name/ Chemical Name	CAS Number	ELINCS	% W
Polyol Ester Oil	See Below	See Below	90-95
Fluorescent Dye	See Below	See Below	5-10

**Polyol Ester Oil:** The specific identity and composition has been withheld as a trade secret. NJTSRN: 80100312-5003

**Fluorescent Dye:** The specific identity and composition has been withheld as a trade secret. NJTSRN: 80100312-5007

### Section 4: First-Aid Measures

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**Primary Routes of Exposure:**

**Inhalation:** Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

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

**Skin Contact:** Wash affected area with soap and water and rinse thoroughly. If irritation develops, consult a physician.

**Ingestion:** Give water. Call a physician immediately. Do not induce vomiting.

**Aggravation of Existing Conditions:** Exposure to this product is not expected to contribute to, worsen or aggravate any existing medical conditions.

**Most Important Symptom:** Treat symptomatically.

## **Section 5: Fire-Fighting Measures**

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**Flash Point:** 500°F (260°C)

**Test Method:** Pensky-Martens Closed Cup

**Explosive Limit:** LEL (%): No data available; UEL (%): No data available

**Autoignition Temperature:** No data available

**Unusual Fire and Hazardous Combustion and Decomposition Products:** Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of nitrogen and carbon.

**Fire and Explosion Hazards:** May liberate irritating or toxic vapors during combustion or decomposition.

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

**Unsuitable Extinguishing Media:** High volume water with full jet. Oxidizers and reducers.

**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. Water can be used to cool and protect containers and surroundings.

## **Section 6: Accidental Release Measures**

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### **Non-Emergency Personnel:**

**General Advice:** Avoid inhalation and contact with skin, eyes, or clothing. Wash hands and face before eating, drinking, or using tobacco products.

**Personal Protective Equipment Needed:** Wear impervious gloves, shoes, and protective clothing

### **Emergency Personnel:**

**Suitable Protective Gear:** Wear impervious gloves, shoes and protective clothing.

**Unsuitable Protective Gear:** Not Applicable

**Environmental Precautions:** Prevent any contamination of local soils and water supply. Prevent ground water infiltration or any ground penetration. Avoid the spreading or entering into watercourses by using sand, soil, or other types of barriers. If contamination into water course or sewage system, alert appropriate authorities.

### **Containment/Clean-up Methods:**

**Containment & Recovery of Product:** Contain with absorbent material, such as clay, soil, universal binding medium, or any commercially available absorbent. Shovel reclaimed dye and absorbent into a recovery or salvage drums for disposal. For larger spills, transfer to a salvage tank for recovery or safe disposal. Any residues should be treated like a small spill. This is not a RCRA hazardous waste per Title 40 CFR 261. Stop material from contaminating soil, or from entering sewers or bodies of water. For larger spills, transfer to a salvage tank for safe recovery/disposal. Residues are treated as small spills.

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

## **Section 7: Handling and Storage**

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**Handling Precautions:** Use product only in well ventilated areas. Avoid breathing in mists or vapors from a heated product. Avoid formation of mists. Avoid heating product near flash point. Avoid prolonged or repeated contact with skin. Handle in ambient temperature.

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

**Personal Hygiene:** Wash hands before breaks and at the end of the work day. Do not carry cleaning clothes used to absorb product in clothing. General hygiene measures for chemicals apply.

**Empty Container Precautions:** Do not reuse empty container for any purpose.

**Special Warnings:** Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air.

## **Section 8: Exposure Controls/Personal Protection**

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**Occupational Exposure Limits:** No exposure limits have been established for this product.

**Biological Exposure Limits:** No data available

**Engineering Controls/Ventilation:** Maintain airborne concentrations below the established exposure limits by providing adequate ventilation. General (dilution) ventilation should be acceptable. Additional local exhaust ventilation is recommended where dusts, mists or vapors may be released.

**Airborne Oil Mist Exposure Limits:** Polyol Ester Oil

ACGIH TLV: 5 mg/m<sup>3</sup>, 8 hr.      ACGIH STEL: 10 mg/m<sup>3</sup>      OSHA PEL: 5mg/m<sup>3</sup>, 8 hr.

**Personal Protective Equipment:**

**Respiratory Protection:** Avoid breathing vapor and/or mist. If occupational exposure limits are exceeded wear NIOSH/OSHA approved equipment. Use a respiratory protection fitted with a combination filter A-P3 for short term use. 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.

**Skin Protection:** Wear protective clothing and appropriate impervious gloves.

**Eye Protection:** Wear safety goggles with peripheral coverage approved to EU Standard EN 166, AS/NZS 1337. An eye wash facility should be readily available.

**Hand Protection:** When in contact with material, be sure to use proper gloves approved to standards (Europe: EN 374, U.S.: F739, & AS/NZS: 2161). Gloves made from neoprene, nitrile or butyl rubber may provide suitable chemical protection.

**Hygiene Measures:** Wash thoroughly after handling, especially before eating, drinking, smoking, or using restroom facilities.

## Section 9: Physical and Chemical Properties

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**Physical State:** Liquid

**Appearance:** Amber

**Odor:** Aromatic hydrocarbon

**Odor Threshold:** no data available

**pH:** No data available

**Melting Point:** No data available

**Freezing Point:** No data available

**Initial Boiling Point:** 399°F (204°C)

**Boiling Range:** no data available

**Flash Point (COC):** Greater than 305° F (152° C)

**Evaporative Rate:** No data available

**Solid Flammability:** No data available

**Gas Flammability:** No data available

**Upper Explosive Limit:** No data available

**Lower Explosive Limit:** No data available

**Vapor Pressure 68° F (20° C) :** <0.01 mmHg

**Vapor Density (Air= 1) :** >1

**Relative Density:** 0.98

**Solubility in Water:** < 0.1 %

**Partition Coefficient: n-octanol/water:** No data available

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity at 40°C:** 48.8

**Viscosity at 100°C:** no data available

**Percent Volatile by Volume (%):** 0

**Evaporation Rate (Butyl Acetate=1):** < 0.01

**Volatile Organic Content (VOC) Component:** None

**Note:** The physical data presented above are typical values and should not be construed as a specification.

**Section 10: Stability and Reactivity**

**Reactivity:** This product is non-reactive under ambient conditions

**Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** High temperatures & a source of ignition. Toxic fumes may be released if product is heated above decomposition point.

**Incompatible Materials:** Strong Acids, Strong oxidizing agents, and Reducing agents

**Hazardous Decomposition Products:** In the event of combustion, CO and CO<sub>2</sub> will be formed.

**Hazardous Polymerization:** Will not occur

**Section 11: Toxicological Information**

		Fluorescent Dye	Polyol Ester Oil
Oral LD <sub>50</sub>	Rat	>5,000 mg/kg	>2,000 mg/kg
Dermal LD <sub>50</sub>	Rabbit	>20,00 mg/kg	>2,000 mg/kg
Inhalation LC <sub>50</sub>	Rat	>12 mg/l	>5.1 mg/l
Eye Irritation	Rabbit	Not Irritating	Not Irritating
Skin Irritation	Rabbit	>4	No data available

**Carcinogenicity:**

Carcinogenicity	ACGIH	IARC	NTP	OSHA
Polyol Ester Oil	No	No	No	No
Fluorescent Dye	No	No	No	No

**Summary Comments:** According to ACGIH, IARC, NTP, and OSHA, the polyol ester and the fluorescent dye are not considered to be a hazardous carcinogen to humans.

**Reproductive Toxicity:** No data available

**STOT-single exposure:** No data available

**STOT-repeated exposure:**

		Fluorescent Dye	Polyol Ester Oil
Oral mg/kg	Rat	No data available	1,613
Dermal mg/kg	Rat	No data available	No data available
Inhalation mg/l/4h	Rat	No data available	No data available

**Aspiration Hazard:** No

**Likely Routes of Exposure:** Eyes, skin and respiratory tract

**Symptoms:**

**Eye Contact:** May cause mild irritation

**Skin Contact:** May cause mild irritation

**Inhalation:** May cause mild respiratory irritation

**Ingestion:** May cause gastrointestinal irritation

**Section 12: Ecological Information****Toxicity:**

	Fluorescent Dye	Polyol Ester Oil
Fish LL <sub>50</sub> 96hr mg/l	No data available	>100mg/l
Crustacean LL <sub>50</sub> 96hr. mg/l	No data available	> 10,000 mg/L
Algae NOEL 72hr. mg/l	No data available	>100mg/l

**Persistence & Degradability:** Readily biodegradable

**Bioaccumulation Potential:** Does not readily bioaccumulate

**Mobility in Soil:** No data available

**Behavior in Sewage Plants:** No data available

**PBT vPvB:** This substance is not a PBT vPvB

## **Section 13: Disposal Considerations**

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

**Disposal:** Recover or recycle if possible, otherwise, dispose of in accordance with all local, state, and federal regulations. Sewage disposal is discouraged

**Special Instructions:** Be sure to contact the appropriate government environmental agencies if further guidance is required. Do not remove labels from container until container is cleaned properly. Containers can be reused or disposed of by landfill or incineration if appropriate to local law. Water with cleaning agents is required

**Hazardous Waste Number:** Not a RCRA hazardous waste

## **Section 14: Transport Information**

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**General Comments:** This product is not classed as hazardous or regulated for transport under 49 CFR, IATA/ICAO, or IMDG

### **49 CFR:**

**DOT Shipping Name:** Not Regulated

**DOT Label:** N/A

**DOT Identification No.:** Not Applicable; Nonregulated shipments by air under 49 CFR, IATA/ICAO AND IMO

### **Transport by Road/Rail (ADR/RID):**

**UN Proper Shipping Name:** Not Applicable

**Transport Hazard Class:** Not Applicable

**Packing Group:** Not Applicable

**Classification Code:** Not Applicable

**LQ (ADR 2013):** Not Applicable

**LQ (ADR 2009):** Not Applicable

**Environmental Hazard:** Not Applicable

**Tunnel Restriction Code:** Not Applicable

### **Transport by Sea (IMDG):**

**UN Proper Shipping Name:** Not Applicable

**Transport Hazard Class:** Not Applicable

**Packing Group:** Not Applicable

**Marine Pollutant:** Not Applicable

**Environmental Hazard:** Not Applicable

### **Transport by Air (IATA):**

**UN Shipping Name:** Not Applicable

**Transport Hazard Class:** Not Applicable

**Packing Group Number:** Not Applicable

**Environmental Hazards:** Not Applicable

**Special Precautions for User:** Unless otherwise specified, general measures for safe transport must be followed

**Transport in Bulk:** Non-dangerous material according to transport regulations

## **Section 15: Regulatory Information**

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### **Inventory Status:**

Polyol Ester Oil: is listed or are excluded from listing on TSCA, DSL, & AICS inventories

Fluorescent Dye: is listed or are excluded from listing on TSCA, DSL, AICS, IECSC, & ENCS inventories

**SARA Title III Information:** This product contains no chemicals subject to the reporting requirements of Section 313 of the emergency planning and community right to know act.

**SARA - Section 302-Extremely Hazardous Substances:** No regulated ingredients.

**SARA - Section 302-Reportable Quantity:** None.

**SARA - 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.

**State Right-To-Know:**

Pennsylvania - New Jersey R-T-K:

NAME	CAS NO. or NJ TSRN	%W
Polyol Ester Oil	NJ TSRN 80100312-5003	90-95
Fluorescent Dye	NJ TSRN 80100312-5007	5-10

**Clean Air Act Amendments - Ozone-Depleting Chemicals:** No regulated ingredients.

**CONEG:** This product is in compliance with CONEG (total cadmium, chromium, lead and mercury <100ppm

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

**CERCLA:** No regulated ingredients.

**California - California Proposition 65:** This product contains no chemical(s) known to the state of California to cause cancer.

**Canada – CEPA DSL/NDSL:** Not regulated

**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.

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**END OF SAFETY DATA SHEET**

