

Material Safety Data Sheet

A. General Information

Product Name (Common Name or Synonym)

Holographically Embossed Acrylic & Aluminum Coated Biaxially Oriented Polyester Film

Geometric Pigment TM

.004" x .004" Silver

.004" x .002" Silver

.002" x .002" Silver

.004" x .004" Gold

.004" x .002" Gold

.002" x .002" Gold

.008" x .008" Silver

Holoflake TM

Spectra F/X TM

Spectratek Product Code #: 11738-67-1

Plant Address:

Spectratek Technologies, Inc.
5405 Jandy Place
Los Angeles, CA 90066-7005

Contact:

Safety Manager
Phone Number: 310-822-2400

Issue Date: April 1, 1997

Revised Date: 12/02/1998, 05/04/1999, 06/23/1999, 07/07/1999, 12/21/1999, 09/14/2004; 1/1/2009

B. First Aid Measures

There are no known health hazards for which first aid is required.

Emergency Phone Number: 310-822-2400

C. Hazards Information

1) Fire and Explosion

Flash Point: Non-Volatile Solid

Autoignition Temperature: Non-Volatile Solid

Flammable Limits In Air (% by Volume): N.A., Non Volatile Solid

Unusual Fire and Explosion Hazards: We Know of None

M.S.D.S., Page Two

2) Health

Inhalation: Wear Protective Mask to Prevent Accidental Inhalation of Particulates

Ingestion: No Adverse Effects In Small Quantities (< One Gram)

Skin: Non-Toxic

Eyes: Irritant, Flush Eyes with Water until Removed, Wear Protective Goggles when handling.

Permissible Concentration: Air - Not Regulated
Biological: None

Unusual Chronic Toxicity: No Known Adverse Effects

D. Precautions and Procedures

Ventilation: Local Exhaust in Area Where Material Is Heated
General Ventilation Is Adequate Where Material Is At Room Temperature

Normal Handling: Use Normal Personal Hygiene and Good Housekeeping

Storage: Use Good Housekeeping

Precautionary Label: Not Applicable

Spill or Leak: Sweep Up and Discard As Harmless Waste

Fire Extinguishing Agents Recommended: Water, Carbon Dioxide, Dry Chemical or "Alcohol" Type Foam.

Special Fire Fighting Precautions: Wear Self Contained Breathing Apparatus Approved by NIOSH

Fire Extinguishing Agents to Avoid: None

Special Precautions/Procedures: None Known

M.S.D.S., Page Three

E. Personal Protective Equipment

Respiratory Protection: Wear Mouth and Nose Mask to Avoid Inhaling Particulates.

Eyes and Face: Wear Goggles to Avoid Getting Particulates in Eyes.

Hands, Arms and Body: None Is Generally Required. Particulates Can Be Removed By Washing with Soap and Water.

Other Clothing and Equipment: Not Generally Required

F. Physical Data

Material Is (At Normal Conditions): Solid

Appearance and Odor: Metallized Film, Odorless.

Vapor Density (Air -1): N.A. (Negligible at Ambient)

Boiling Point: N.A. (Non Volatile Solid)

Melting Point: > 235°C

Specific Gravity: (H₂O = 1) 1.3

Vapor Pressure: (mm Hg at 20°C) Negligible At Ambient

Solubility In Water: (% by Weight) Negligible, however, materials can absorb water, avoid high humidity, materials cannot be submersed in water or water based liquids

pH: Not Applicable

Evaporation Rate: N.A. (Non Volatile Solid)

% Volatiles By Volume: (At 20°C) 0% At Ambient

M.S.D.S., Page Four

G. Reactivity Data

Stability: Stable

Conditions to Avoid: Water, high humidity, materials cannot be submersed in water or water based liquids

Incompatibility (Materials to Avoid): None Known

Hazardous Decomposition Products: Hazardous Gases / Vapors Produced Are Carbon Monoxide And Hydrocarbon Oxidation Products Including Organic Acids, Aldehydes, And Alcohols.

Hazardous Polymerization: Will Not Occur

H. Hazardous Ingredients

Acrylic And Aluminum Coated Biaxially Oriented Polyester Film Is Not A Hazardous Material As Defined By 29 CFR 1910.1200.

Ron Reiss 12/31/99 12:00 AM

I. Environmental

Degradability: Not Applicable

Waste Disposal methods: 1) Recycling, 2) Incineration with Energy Recovery, 3) Landfill.

* Disposer Must Comply With Federal, State and Local Disposal or Discharge Laws.

J. Transport Information

This Product Is Not Regulated By Any Means of Transport.

K. Regulatory Information

U.S. Federal Regulations:

- Clean Air Act: HAP: This Product Contains No Hazardous Air Pollutants (HAP), As Defined By The U.S. Clean Air Act.

M.S.D.S., Page Five

- Clean Air Act: ODS: This Product Neither Contains, Nor Was Manufactured With, A Class I Or Class II Ozone Depleting Substance (ODS). We Have Relied On Our Suppliers Labeling Their Products. None Have Done So.
- Clean Water Act: Priority Pollutant: This Product Contains No Chemicals Listed Under The U.S. Clean Water Act Priority Pollutant List.
- FDA: Food Packaging Status: This Product Has NOT Been Cleared By The FDA For Use In Food Packaging And / Or Other Applications As An Indirect Food Additive.
- Occupational Safety And Health Act: This Product Is NOT Considered To Be A Hazardous Chemical Under The OSHA Hazard Communication Standard (29 CFR 1910.1200).
- RCRA: This product is not considered to be a hazardous waste under RCRA (40 CFR 261).
- SARA Title III: Section 302: This product contains NO chemicals regulated under Section 302 as extremely hazardous substances.
- SARA Title III: Section 304: This product contains NO chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List).
- SARA Title III: Section 313: This product contains no chemical requiring annual routine Toxic Chemical Release Reporting under Section 313.
- TSCA Section 8 (b): Inventory: All chemicals comprising this product are listed on the TSCA inventory. This product is considered an "Article" under Section 723.250 guidelines and is not subject to further TSCA regulation.
- TSCA Section 12 (b): Export Notification: This product does NOT contain any chemicals subject to Section 12(b) export notification.

International Regulations:

- Canadian Environmental Protection Act: Section 2.3, This Substance is not subject to the new Substances Provisions of the Canadian Environmental Protection Act per Section 2.3.1.1 "*as it does not itself produce a substance that is different from the substances that were combined" and is produced from previously known substances.*
- EINECS: 231-072-3 Flammability of Aluminum Powder - Not Applicable
- Other Approvals Pending

State Regulations:

- CONEG Status: All Spectratek products which originate from Polyester film and are metallized with aluminum, conform to current CONEG regulations, i.e., the sum of the concentrations of lead, cadmium, hexavalent chromium, and mercury does not exceed 100 ppm by weight. Additionally, none of these elements are purposely added as ingredients.

- CA Proposition 65: This product does not contain any chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.
- MA Right-To-Know Law: This product does not contain any chemicals, which are subject to Massachusetts Right-To-Know Law disclosure requirement.
- NJ Right-To-Know Law: The following is required composition information:
 - Chemical Name: Polyethylene Terephthalate
 - CASRN: 25038-59-9
 - % in Composition: 99.6
 - Chemical Name: Aluminum
 - CASRN: 7429-90-5
 - % in Composition: 0.4
- PA Right-To-Know Law: The following is required composition information:
 - Chemical Name: Polyethylene Terephthalate
 - CASRN: 25038-59-9
 - % in Composition: 99.6
 - Comments: Not on Pennsylvania Hazardous Substance List.
 - Chemical Name: Aluminum
 - CASRN: 7429-90-5
 - % in Composition: 0.4
 - Comments: Not on Pennsylvania Hazardous Substance List.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Spectratek Technologies, Inc.