



## COMPOSECURE, LLC

### Material Safety Data Sheet

#### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

##### Material Identification

Foil Prelam .010" (PL10FF)  
 Registered Foil Prelam .010" (PL10FFR)  
 Embedded Registered Spot Hologram Prelam, .005" and .006" (PL5HR),  
 (PL5CLHR), (PL6HR)  
 Embedded Unregistered Spot Hologram Prelam, .005" and .006" (PL5HNR),  
 (PL5CLHNR), (PL6HNR)

##### Product Use

OSHA Hazard Communication Standard (29 CFR 1910.1200) requirements for Material Safety Data Sheets do not apply to the product described in this information sheet. This product is excluded as an article.

Uses include platen laminating with PVC

##### Company Identification

MANUFACTURER/DISTRIBUTOR  
 CompoSecure LLC

PHONE NUMBERS  
 Product Information 908-518-0500

#### COMPOSITION/INFORMATION ON INGREDIENTS

##### Components

Material	CAS Number	%
Foil Prelam .010" (PL10FF)		
Registered Foil Prelam .010" (PL10FFR)		
Embedded Registered Spot Hologram Prelam, .005" and .006" (PL5HR), (PL5CLHR), (PL6HR)		
Embedded Unregistered Spot Hologram Prelam, .005" and .006" (PL5HNR), (PL5CLHNR), (PL6HNR)		

are made from Polyester Terephthalate 25038-59-9 48-60  
that has been metallized

Coextrusion layers may be present. Various PVC 16-40  
fillers or additives used to modify the physical  
appearance and/or surface properties of the  
various film types may be present. Concentrations  
of the following may range from 1-20%:

Isophthalate Copolymer (Coextrusion layer)	24938-04-3	
Plasticizers		0-9
Impact Modifiers		0-4
Surfactants		0-2
Lubricants and Processing Aids		0-2
Stabilizers		0-1

## **HAZARDS IDENTIFICATION**

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### Emergency Overview

No known health hazards.

Appearance: Solid Film

Odor: Odorless

Read the entire MSDS for a more thorough evaluation of the hazards.

### Potential Health Effects

Decomposition products caused by overheating polyethylene terephthalate and PVC may cause skin, eye, or respiratory irritation. Combustion products may include: Hydrogen Chloride gas. Can cause severe irritation and corrosive burns of eyes, skin and upper respiratory tract. Acute overexposures: Can cause fluid in the lungs (pulmonary edema).

Molten polymer can cause thermal burns.

All ingredients are fully incorporated into the product. Exposure to fillers encapsulated in the film polymer is not likely during normal use.

Medical conditions Aggravated by exposure to the Product: Asthma, chronic lung disease, and skin rashes.

### Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as

carcinogens.

Material  
Carbon Black

IARC NTP OSHA ACGIH  
2B

## **FIRST AID MEASURES**

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### First Aid

#### INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation.

However, if exposed to fumes from overheating or combustion, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.

#### SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

#### Notes to Physicians

Prolonged eye irritation may occur from pieces of debris sticking to the eyeball or eyelids.

## **FIRE FIGHTING MEASURES**

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### Flammable Properties

Films can be combusted only by remaining in contact with flame. If flame source

is stationary, the film will shrink away and self-extinguish. Film remaining in contact with flame can continue to burn slowly, dropping flaming liquid which can spread the fire.

Irritating fumes may be evolved at decomposition temperatures.

During processing, films may pick up a strong static charge. Avoid discharge onto dust or solvent laden air as a flash fire or explosion may result.

#### Extinguishing Media

Use media appropriate for surrounding material.

#### Fire Fighting Instructions

Keep personnel removed upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

### **ACCIDENTAL RELEASE MEASURES**

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#### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (Personnel) sections before proceeding with clean-up. Use appropriate PERSONNEL PROTECTIVE EQUIPMENT during clean-up.

#### Spill Clean Up

Films and film scraps can create a slipping hazard. Collect product for recovery or disposal.

### **HANDLING AND STORAGE**

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#### Handling (Personnel)

Do not breathe vapors or fumes that may be evolved during processing.

Avoid skin contact with sharp film edges.

#### #Handling (Physical Aspects)

Rolls of film may telescope. Use caution when handling.

Rolled film should be stored at intended processing temperature for approximately 24 hours prior to use.

Plastic packaging materials can pick up static charge. Rolls packaged with shrinkwrap (or other plastic overwrap) should be opened or unwrapped only in non-process areas where ignition sources such as solvents are not in use or in storage.

#### Storage

Store away from heat and sources of ignition. Do not store in direct sunlight. Avoid prolonged storage in high or low temperatures. Recommended storage temperatures are 20 F (-7 C) to 100 F (38 C).

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

### ENGINEERING CONTROLS

General exhaust is acceptable except where overheating can occur during processing. Remove fumes released by decomposition with local exhaust if overheating occurs.

Movement of film over metal or rollers will produce a surface static charge on the film. Consider processing design and procedures that will reduce or dissipate this charge, and eliminate the possibility of unwanted electrical discharge to people, equipment and materials.

Use adequate ventilation. If decomposition occurs: Use with adequate ventilation to meet the limits listed in Exposure Guidelines.

### Personal Protective Equipment

### RESPIRATORY PROTECTION

If dust generation or decomposition occurs: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Exposure Guidelines. Suggested respiratory protection: N95, fit testing must be completed prior to respirator use. Use acid/gas cartridge if hydrogen chloride gas is generated.

### EYE PROTECTION

Wear safety glasses/goggles to avoid eye contact.

### SKIN PROTECTION

Wear appropriate gloves to avoid any skin injury.

## PROTECTIVE CLOTHING

If there is a potential for contact with hot/molten material, wear heat resistant impervious clothing and footwear.

Special protective clothing is not needed for normal use. Gloves are Recommended as good industrial practice.

## EXPOSURE GUIDELINES

### General Product Information

The ACGIH and OSHA have not developed exposure limits for this product.

### Component Exposure Limits

#### Polyethylene Terephthalate

PEL (OSHA)	None Established
TLV (ACGIH)	None Established
AEL* (Composecure)	10 mg/m <sup>3</sup> , 8 Hr. TWA, total dust 5 mg/m <sup>3</sup> , 8 Hr. TWA, respirable dust

#### Barium Sulfate

PEL (OSHA)	15 mg/m <sup>3</sup> , total dust, 8 Hr. TWA 5 mg/m <sup>3</sup> , respirable dust, 8 Hr. TWA
TLV (ACGIH)	10 mg/m <sup>3</sup> , total dust, 8 Hr. TWA
AEL* (Composecure)	10 mg/m <sup>3</sup> , 8 Hr. TWA

#### Polypropylene

PEL (OSHA)	None Established
TLV (ACGIH)	None Established
AEL* (Composecure)	10 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, total dust 5 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, respirable dust

#### Silica Gel

PEL (OSHA)	80 mg/m <sup>3</sup> / % SiO <sub>2</sub> – 8 Hr. TWA
TLV (ACGIH)	10 mg/m <sup>3</sup> , 8 Hr. TWA, total dust Or see Diatomaceous Earth (uncalcined) [61790-53-2]
AEL* (Composecure)	2 mg/m <sup>3</sup> , 8 Hr. TWA, respirable dust

#### Carbon Black

PEL (OSHA)	3.5 mg/m <sup>3</sup> , 8 Hr. TWA
TLV (ACGIH)	3.5 mg/m <sup>3</sup> , 8 Hr. TWA
AEL* (Composecure)	0.5 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, (Polynuclear Aromatic Hydrocarbon Content <0.1%) Includes Channel, Lamp, and Thermal Black

## Titanium Dioxide

PEL (OSHA)	15 mg/m <sup>3</sup> , total dust, 8 Hr. TWA
TLV (ACGIH)	10 mg/m <sup>3</sup> , total dust, 8 Hr. TWA
AEL* (Composecure)	10 mg/m <sup>3</sup> , total dust, 8 Hr. TWA
	5 mg/m <sup>3</sup> , respirable dust, 8 Hr. TWA

## Stabilizers (Proprietary)

ACGIH 2 mg/m<sup>3</sup> TWA (inhalable fraction, vapor and aerosol)

## Processing Aids (Proprietary)

OSHA 15mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

## Lubricants (Proprietary)

ACGIH 2mg/m<sup>3</sup> TWA (respirable fraction)

OSHA 20 mppcf

## Additional Compounds Which May be Formed During Processing

Hydrogen chloride (7647-01-0)

ACGIH 5ppm Ceiling

OSHA 5 ppm Ceiling; 7mg/m<sup>3</sup> Ceiling

\*AEL is Composecure, LLC's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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**PHYSICAL AND CHEMICAL PROPERTIES**


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## Physical Data

Form	Film
Color	Colorless
Melting Point	~500 F (~260 C)
Solubility in Water	Insoluble
Specific Gravity	1.2-1.38
Vapor Pressure	Negligible @ 20 C (68 F)

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**STABILITY AND REACTIVITY**


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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

None reasonable foreseeable.

### Decomposition

Decomposition temperature: > 300 C (>572 F)

Decomposition products include carbon dioxides, aldehydes, terephthalic acid.

### Conditions to Avoid

Strong oxidizers, amines, and acetal or acetal copolymers.

### Polymerization

Polymerization will not occur.

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## TOXICOLOGICAL INFORMATION

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### Animal Data

Polyethylene Terephthalate  
 Oral ALD > 10,000 mg/kg in rats

Polyethylene Terephthalate is not a skin irritant, but is a mild eye irritant.

### Component Carcinogenicity

Polyvinyl chloride resin (9002-86-2)  
 IARC Supplement 7, 1987; Monograph 19, 1979.

#### Stabilizers (Proprietary)

ACGIH	A4-Not Classifiable as a Human Carcinogen
IARC	Supplement 7, 1987; Monograph 40, 1986

#### Lubricants (Proprietary)

ACGIH	A4-Not Classifiable as a Human Carcinogen
IARC	Supplement 7, 1987; Monograph 40, 1986

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## ECOLOGICAL INFORMATION

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### Ecotoxicological Information

No information is available. Toxicity is expected to be low since films are insoluble in water. Films are not biodegradable.

## Component Analysis – Ecotoxicity – Aquatic Toxicity

### Stabilizers (Proprietary)

LC50 (48 hr) killifish: 2.5 mg/L.

EC50 (5.15.30 min) *Photobacterium phosphoreum*: 7.82-8.98 mg/L: 15 degrees C.

## **DISPOSAL CONSIDERATIONS**

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### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## **TRANSPORTATION CONSIDERATIONS**

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### Shipping Information

DOT  
Not Regulated.

## **REGULATORY INFORMATION**

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### U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

### Component Analysis

None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65, or CERCLA (40 CFR 302.4).

### SARA 311/312 Physical and Health Hazard Categories

Immediate (acute) Health Hazard:	No
Delayed (chronic) Health Hazard:	No
Fire Hazard:	No
Sudden Release or Pressure:	No
Reactive:	No

SARA Regulations Sections 313 and 40 CFR 372: This product does not contain any chemicals subject to the reporting requirements of SARA.

Clean Air Act Status: This product does not contain, and is not manufactured with ozone depleting chemicals as defined in 58 FR 8136, February 11, 1993 (final rule).

### State Regulations (U.S.)

CONEG Status: All PL6 products are compliant with CONEG regulations; the sum of the concentrations of cadmium, chromium, lead and mercury does not exceed 100 ppm. None of these metals is used as an ingredient or processing aid.

### Component Analysis – State

The following components appear one or more of the following state hazardous substances lists:

<u>Component</u>	<u>CAS #</u>	<u>CA</u>	<u>FL</u>	<u>MA</u>	<u>MN</u>	<u>NJ</u>	<u>PA</u>
Stabilizers	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Processing Aids	Proprietary	No	No	Yes	Yes	No	Yes
Lubricants	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

### Other Regulations

#### General Product Information

No information available for product.

### Component Analysis – WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<u>Component</u>	<u>CAS #</u>	<u>Minimum Concentration</u>
Stabilizers	Proprietary	1%; English item 238; French item 1007
Processing Aids	Proprietary	1%; English item 1725; French item 1504

## **OTHER INFORMATION**

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### NFPA, NPCA-HMIS

#### NFPA Rating

Health	1
Flammability	1
Reactivity	0

#### NPCA-HMIS Rating

Health	0
Flammability	1
Reactivity	0

#### Additional Information

**MEDICAL USE:**      **CAUTION:** Do not use in medical applications involving permanent implantation into the human body. For other medical applications, please contact a Composecure, LLC representative.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

**End of MSDS**