

# Safety Data Sheet

## Per GHS Standard Format

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Product Name:** Lag-Kote Interior/Exterior Lagging Encapsulant No. 6424 White

**Recommended Use of Product:** Lagging Encapsulant

#### Information on the Supplier of the Safety Data Sheet

Manufactured For:  
Fiberlock Technologies, Inc.  
150 Dascomb Road  
Andover, MA 01810

Emergency Telephone Numbers:  
CHEM TEL: (U.S.): 1-800-255-3924  
(Outside the U.S.): 813-248-0585

P: 800-342-3755 F: 978-475-6205

### SECTION 2: HAZARDS IDENTIFICATION

Signal Word: **WARNING**



#### GHS Label Statements

Hazard Statements:

Harmful if inhaled.

Can cause mild skin irritation.

Causes serious eye irritation.

May cause cancer.

#### GHS Classifications

This product is considered hazardous by The 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity-Inhalation (Vapors) Category 4

Acute Toxicity-Inhalation (Dust-mists) Category 2

Serious eye damage/eye irritation – Category 2

Skin sensitization – Category 1

Carcinogenicity – Category 2

#### PRECAUTIONARY STATEMENTS

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection (eye protection, gloves) during application. When grinding/sanding dry films, wear respiratory protection.

**Response:** If on skin, wash with plenty of soap and water. If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If inhaled, remove victim to fresh air. If exposed or concerned, get medical advice.

**Storage:** Keep closures tight and containers upright to prevent leakage. KEEP FROM FREEZING. Product is non-combustible.

**Disposal:** The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should be sealed and labeled and land-filled or incinerated according to local, regional and national regulations.

**Hazards Not Otherwise Classified (NHOC):** Not applicable

**Unknown Toxicity:** Over 70% of the mixture consists of ingredients of unknown toxicity.

**Other Information:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

### SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Weight, %*</u>
Titanium dioxide	13463-67-7	10-30
Aluminum silicate	1332-58-7	8-15
Propylene glycol	57-55-6	3-7
Chlorothalonil	1897-45-6	0.1-1
Zinc oxide	1314-13-2	1-4

\*The exact concentration of composition has been withheld as a trade secret.

### SECTION 4: FIRST AID MEASURES

#### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Eye Contact

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

#### Skin Contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not breathe dust.

#### Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

### **Self-Protection of the First Aider**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists.

### **Most important symptoms and effects, both acute and delayed**

#### **Most Important Symptoms and Effects**

Burning sensation. Coughing and/or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

### **Indication of any immediate medical attention and special treatment needed**

#### **Notes to Physician**

Treat symptomatically. May cause sensitization of susceptible persons.

## **SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical:** Product is/or contains a sensitizer. May cause sensitization by skin contact.

#### **Uniform Fire Code**

Sensitizer: Liquid Toxic: Liquid

**Hazardous Combustion Products:** Carbon oxides

#### **Explosion Data**

Sensitivity to mechanical impact No.

Sensitivity to static impact No.

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid generation of dust.

**Other Information:** Refer to protective measures listed in Sections 7 & 8.

### **Environmental Precautions**

**Environmental Precautions:** Refer to protective measures listed in Sections 7 & 8.

## **Methods and Material for Containment and Cleaning Up**

**Methods for Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:** Immediately place absorbent material in a sealed water-filled metal container to avoid spontaneous combustion of absorbent material contaminated with this product. Pick up and transfer to properly labeled containers.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Keep away from contact with clothing and other combustible materials to avoid fire.

### **Conditions for Safe Storage, Including any Incompatibilities**

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Incompatible Products:** None known based on information supplied

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure Guidelines**

<b><i>Chemical Name</i></b>	<b><i>ACGIH TLV</i></b>	<b><i>OSHA PEL</i></b>	<b><i>NIOSH IDLH</i></b>
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Zinc oxide 1314-13-2	TWA 5mg/m <sup>3</sup>	TWA 5 STEL 100 CSI 25 mg/m <sup>3</sup>	No data available

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11<sup>th</sup> Cir., 1992). See section 15 for national exposure control parameters

### **Appropriate Engineering Controls**

**Engineering Measures:** Showers / Eyewash Stations / Ventilation Systems

### **Individual Protection Measures, such as Personal Protective Equipment**

#### **Eye/Face Protection**

If splashes are likely to occur, wear safety glasses with side shields (or goggles). None required for consumer use.

**Skin and Body Protection:** Wear protective gloves and protective clothing

**Respiratory Protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Viscous liquid	<b>Odor:</b>	Very Slight
<b>Appearance:</b>	White	<b>Odor Threshold:</b>	No information available
<b>Color:</b>	No information available		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/Method</u></b>
pH	8.5	None known
Melting/freezing point	No data available	None known
Boiling point/boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Miscible in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No data available	

### **Other Information**

Softening Point	No data available
VOC Content (%)	No data available
Particle size	No data available
Particle size distribution	No data available

## SECTION 10: STABILITY AND REACTIVITY

### **Reactivity**

No data available

### **Conditions to Avoid**

Excessive heat

## Chemical Stability

Stable under recommended storage conditions

## Incompatible Materials

None known based on information supplied

## Possibility of Hazardous Reactions

None under normal processing

## Hazardous Decomposition Products

Carbon oxides

## Hazardous Polymerization

Hazardous polymerization does not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

**Product Information:** Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation:** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation (based on components).

**Eye Contact:** Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.

**Skin Contact:** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion:** Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Component Information

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)		
Propylene Glycol 57-55-6	= 2000 mg/kg (Rat)	=20800 mg/kg (Rabbit)	
Chlorothalonil 1897-45-6		> 10 g/kg (Rabbit)	= 310 mg/m <sup>3</sup> (Rat) 1 hr
Zinc oxide 1314-13-2	7950 mg/kg (Mouse)	No data available	No data available

### Information on Toxicological Effects

**Symptoms:** May cause redness and tearing of the eyes, coughing and/or wheezing, itching, rashes and hives.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

**Sensitization:** May cause sensitization of susceptible persons. May cause sensitization by skin contact.

**Mutagenic Effects:** No information available

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Titanium dioxide 13463-67-7		Group 2B		X
Chlorothalonil 1897-45-6		Group 2B		X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 – Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 2B – Possibly Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X-Present

**Reproductive Toxicity, STOT Single Exposure, STOT Repeated Exposure:** No information available

**Chronic Toxicity:** Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Contains a known or suspected carcinogen.

**Target Organ Effects:** Eyes, respiratory system, skin, gastrointestinal tract (GI) & lungs.

**Aspiration Hazard:** No information available

### Numerical Measures of Toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

<b>_ATEmix (oral)</b> 8,711.00 mg/kg	<b>ATEmix (inhalation-dust/mist)</b> 2.41 mg/l
<b>ATEmix (dermal)</b> 21,608.00 mg/kg (ATE)	<b>ATEmix (inhalation-vapor)</b> 16.00 ATEmix
<b>ATEmix (inhalation-gas)</b> 3,118.00 ppm (4hr)	

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Toxic to aquatic life.

<b>Chemical Name</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Microorganisms</b>	<b>Daphnia Magna (Water Flea)</b>
Propylene Glycol 57-55-6	96h EC50: 19000mg/L (Pseudokirchneriella Subcapitata)	96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41-47 mL/L		24h EC50: = 10000 mg/L 48h EC50: = 10000 mg/L

(Oncorhynchus mykiss) 96h  
 LC50: = 51400 mg/L  
 (Pimephales promelas) 96h  
 LC50: = 710 mg/L  
 (Pimephales promelas)

Chlorothalonil Glycol 1897-45-6	72h EC50: = 0.57 mg/L (Desmodesmus subspicatus) 72h EC50: = 0.0068 mg/L (Pseudokirchneriella Subcapitata)	96h LC50: = 0.012 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0076 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0221-0.032 mg/L (Lepomis macrochirus) 96h LC50: 0.045-0.057 mg/L (Lepomis macrochirus)	48h EC50: 0.0342 – 0.143 mg/L
Zinc oxide 1314-13-2	No data available	No data available	No data available

**Persistence and Degradability:** No information available

**Bioaccumulation**

<b><i>Chemical Name</i></b>	<b><i>Log Pow</i></b>
Chlorothalonil 1897-45-6	2.9
Methylchloroisothiazolinone 26172-55-4	-0.71-0.75

**Other Adverse Effects:** No information available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal Methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging:** Dispose of contents/containers in accordance with local regulations

**California Hazardous Waste Codes:** 331

**SECTION 14: TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not Regulated
Proper Shipping Name	Non-Regulated
Hazard Class	N/A

<b><u>TDG</u></b>	
Un-No.	UN3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
Packing Group	III



Description UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.  
(Chlorothalonil), 9, III, Marine Pollutant

**IATA**  
Un-No. 3082  
Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.  
Hazard Class 9  
Packing Group III  
Description UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.  
(Chlorothalonil), 9, III

**IMDG/IMO**  
Un-No. 3082  
Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.  
Hazard Class 9  
Packing Group III  
EmS No. F-A, S-F  
Marine Pollutant Description Product is a marine pollutant according to the criteria set by  
IMDG/IMO  
UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.  
(Chlorothalonil), 9, III, Marine Pollutant

## **SECTION 15: REGULATORY INFORMATION**

### **International Inventories**

TSCA Complies  
DSL All components are listed either on the DSL or NDSL

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<b>CHEMICAL NAME</b>	<b>CAS NO.</b>	<b>WEIGHT %</b>	<b>SARA 313 – THRESHOLD VALUES %</b>
Chlorothalonil	1897-45-6	0.1-1	0.1

#### **SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

<b>Chemical Name</b>	<b>California Proposition 65</b>
Titanium dioxide – 13463-67-7	Carcinogen
Chlorothalonil – 1897-45-6	Carcinogen

### **U.S. State Right-to-Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>	<b>Rhode Island</b>	<b>Illinois</b>
Titanium dioxide – 13463-67-4	X	X	X		
Propylene glycol – 57-55-6	X		X		
Chlorothalonil – 1897-45-6	X	X	X	X	
Aluminum silicate – 1332-58-7	X	X	X	X	
Zinc oxide – 1314-13-2	X	X	X		

### **International Regulations**

Canada

WHMIS Hazard Class

D2A – Very toxic materials

D2B – Toxic materials



## **SECTION 16: OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 0	Instability 0	Physical & Chemical Hazards -
HMIS	Health Hazards 2*	Flammability 0	Physical Hazard 0	Personal Protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: [www.epa.gov/lead](http://www.epa.gov/lead)