Safety Data Sheet
Per GHS Standard Format

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Fiberlock IAQ 4000 DTM Primer No. 8340 White
Recommended Use of Product: Direct to Metal Primer

Information on the Supplier of the Safety Data Sheet

Manufactured For: Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810
P: 800-342-3755  F: 978-475-6205

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

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: WARNING

GHS Label Statements

Hazard Statements:
Harmful if inhaled.
Causes 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
Serious eye damage/eye irritation – Category 2
Skin sensitization – Category 1

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

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

### SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight, %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>10-30</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>3-7</td>
</tr>
<tr>
<td>Chlorothalonil</td>
<td>1897-45-6</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1-4</td>
</tr>
</tbody>
</table>

*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**

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust</td>
<td>IDLH: 5000 mg/m³</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>TWA 5 mg/m³</td>
<td>TWA 5 STEL</td>
<td>No data available</td>
</tr>
<tr>
<td>1314-13-2</td>
<td></td>
<td>100 CSI 25 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

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 (11th 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

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Viscous liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>White</td>
</tr>
<tr>
<td>Color:</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor:</td>
<td>Very Slight</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Property** | **Values** | **Remarks/Method** |
---|---|---|
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 | No data available | None known |
  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 | None known |
Oxidizing properties | No data available | None known |
Softening Point | No data available | None known |
VOC Content (%) | No data available | None known |
Particle size | No data available | None known |
Particle size distribution | No data available | None known |

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

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**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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>= 2000 mg/kg (Rat)</td>
<td>=20800 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>57-55-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorothalonil</td>
<td>&gt; 10 g/kg (Rabbit)</td>
<td></td>
<td>= 310 mg/m³ (Rat) 1 hr</td>
</tr>
<tr>
<td>1897-45-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>7950 mg/kg (Mouse)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>1314-13-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Group 2B</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorothalonil</td>
<td>Group 2B</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1897-45-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>ATEmix (inhalation-dust/mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8,711.00 mg/kg</td>
<td>2.41 mg/l</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATEmix (dermal)</th>
<th>ATEmix (inhalation-vapor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21,608.00 mg/kg (ATE)</td>
<td>16.00 ATEmix</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATEmix (inhalation-gas)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,118.00 ppm (4hr)</td>
</tr>
</tbody>
</table>

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol 57-55-6</td>
<td>96h EC50: 19000mg/L (Pseudokirchneriella Subcapitata)</td>
<td>96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41-47 m/L/L (Oncorhynchus mykiss) 96h</td>
<td>24h EC50: = 10000 mg/L 48h EC50: = 10000 mg/L</td>
<td></td>
</tr>
</tbody>
</table>
Chlorothalonil
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
No data available
No data available

Persistence and Degradability: No information available

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorothalonil</td>
<td>2.9</td>
</tr>
<tr>
<td>1897-45-6</td>
<td></td>
</tr>
<tr>
<td>Methylchloroisothiazolinone</td>
<td>-0.71-0.75</td>
</tr>
<tr>
<td>26172-55-4</td>
<td></td>
</tr>
</tbody>
</table>

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

DOT
Proper Shipping Name: Not Regulated
Hazard Class: N/A

TDG
No data available

IATA
No data available
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.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NO.</th>
<th>WEIGHT %</th>
<th>SARA 313 – THRESHOLD VALUES %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorothalonil</td>
<td>1897-45-6</td>
<td>0.1-1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide – 13463-67-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Chlorothalonil – 1897-45-6</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>
U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide – 13463-67-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene glycol – 57-55-6</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorothalonil – 1897-45-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Zinc oxide – 1314-13-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International Regulations
Canada
WHMIS Hazard Class
D2A – Very toxic materials
D2B – Toxic materials

SECTION 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards 2</th>
<th>Flammability 0</th>
<th>Instability 0</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards 2*</td>
<td>Flammability 0</td>
<td>Physical Hazard 0</td>
<td>X</td>
</tr>
</tbody>
</table>

Chromic 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)