

MATERIAL SAFETY DATA SHEET

(Essentially similar to OSHA form 174, Sept. 1985 - For Compliance with OSHA's Hazard Communication Standard, 29CFR 1910.1200)

Section I - Product Identity:

Manufacturer's Name:
Fiberlock Technologies, Inc.
630 Putnam Avenue
Cambridge, MA 02139-0802

Mail Address:
P.O. Box 390432
Cambridge, MA 02139-0802

L-B-C® Lead Barrier Compound Type III-Interior/Exterior (5801)

Date of Preparation: August 4, 1999
Information Telephone Number:
(617) 876-8020
Emergency Telephone Numbers:
Weekdays: (617) 876-8020
(After hours, weekends & holidays)
(978) 887-5926, or "CHEM-TEL" Emergency
Contact Number: (800) 255-3924

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENT	COMMON NAME(S)	%	CAS. NO.	OSHA PEL	OR	ACGIH TLV
Titanium dioxide	(same)	<15%	13463-67-7			ACGIH TWA 10 mg/m ³

Normal application procedures pose no hazard since the titanium dioxide is wet and encapsulated, but grinding or sanding dried films of this product may yield respirable dusts. Control exposures to less than 10 mg/m³ using NIOSH-approved dust filtered respirators.

Section III - Physical/Chemical Characteristics (See reference note(s) No. 1, 2 on Reverse)

Boiling Points of Major Constituent: (Water)	212°F	Specific Gravity (H ₂ O=1) Wgt./gal.	11.5
Vapor Pressure (mm Hg) @ 68°C	17	Melting Point Water (Ice)	32°F
Vapor Density (AIR=1) Heavier Lighter	X	Evaporation Rate (Butyl Acetate=1)	Slower
Solubility in Water	Total	Appearance and Odor	Viscous liquid; slight odor Maximum VOC's 250 g/l

Section IV - Fire and Explosion Hazard Data Non-Flammable

Flash Point: Non-Combustible	Flammable Limits: LEL: N/A UEL:N/A	DOT Hazard Class: Non Regulated	Marking: "Keep From Freezing"
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Section V - Reactivity Data

Hazardous Polymerization: Will not occur.

Stability: Stable

Incompatibility: Avoid Contact with: Strong oxidizing agents (e.g., nitric acid, permanganates), etc.

Hazardous Decomposition Products: Some carbon monoxide

Section VI - Health Hazard Data, Toxicity Data

Route(s) of Entry: N/A

Carcinogenicity?: No

Health Hazards (Acute and Chronic):

EFFECTS OF OVEREXPOSURE: Inhalation, vapors or spray mists may be slightly irritating to eye, nose, throat, and mucous membranes of respiratory tract producing symptoms of headache, nausea in poorly ventilated areas. Skin Contact: Prolonged or repeated contact with coating may cause slight skin irritation. Eye Contact: Direct contact; inconsequential eye irritation. Ingestion: May cause nausea and intended expectoration.⁽¹⁾

EMERGENCY AND FIRST AID PROCEDURES: Inhalation: Remove to fresh air. Eye and Skin Contact: Immediately flush eyes with plenty of water for at least 15 minutes and consult physician; wash skin thoroughly with soap and water. If drenched, remove and wash clothing before reuse. Ingestion: If victim is conscious, give 2 glasses of water. Call a physician.

SUPPLEMENTAL INFORMATION

To comply with New Jersey DOH Right-To-Know labeling law (N.J.A.C. 8:59 - 5.1 & 5.2)

CAS. No.:

7732-18-5

13463-67-7

1317-65-3

Not Available

Not Available

*contents partially unknown

CHEMICAL INGREDIENTS:

Water

Titanium dioxide

Calcium Carbonate

Proprietary surfactant*

Proprietary resin solids*

HMIS HAZARD RATING

Health 1	Flammability 0	Reactivity 0	Personal Protection E
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HAZARD INDEX

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

PERSONAL PROTECTION CODE

E=Safety Glasses, Gloves, Dust Respirator - for airless-spray applications only

NOTE: ⁽¹⁾ Contains 0.04% (Denatonium Benzoate NF - XVII) as an anti-ingestion agent - yields a very bitter taste.

Section VII: Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Floor may be slippery; use care to avoid falling. Dike and contain material with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and run-offs out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHOD: The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should then be sealed and properly labeled with waste designation and landfill or incinerated according to current local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Maximum storage temperature 100°F.

Keep closure tight and container upright to prevent leakage. Precautionary Labeling: "Keep from Freezing".

OTHER PRECAUTIONS: Do not get in eyes. Avoid skin contact. Prevent prolonged or repeated breathing of vapors or spray mists. Do not handle until the manufacturer's safety precautions and label instructions have been read and understood. Avoid breathing sanding dust.

Section VIII: Control Measures

RESPIRATORY PROTECTION: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered. Use approved chemical/mechanical filters designed to remove particulates in open and restricted ventilation areas. Use MSHA/NIOSH-approved airline type respirators or hood in confined areas.

VENTILATION: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29CFR Part 1910.94.

PROTECTIVE GLOVES: Impervious gloves should be worn if prolonged skin contact is likely. Use neoprene or rubber gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSIZ-87.1 or approved equivalent).

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Use protective cream if prolonged skin contact is likely.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using the washroom. Food or beverages should not be consumed anywhere this product is being applied.

References:

1. Sax, N.I., "Dangerous Properties of Industrial Materials", 8th ed., Van Nostrand Reinhold Company, Inc., NY, 1992.
2. American Conference of Governmental Industrial Hygienists, "TLV's and Biological Exposure Indices" for the current year (published annually).
3. U.S. Code of Federal Regulations (CFR) U.S. Dept. of Labor, No. 29, Parts 1900 to 1910.1200. OSHA Communications Standard 29 CFR 1910.1200.
4. Sax, N.I., R.J. "Hazardous Chemicals Desk Reference", Van Nostrand Reinhold Co., Inc., NY, 1987.
5. Fire Protection Guide to Hazardous Materials, 10 ed., National Fire Protection Association, Quincy, MA, 1991.
6. Title III List of Lists, U.S. Environmental Protection Agency publication EPA 560/4-90-011, January 1990.