

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:

LockKote Component B (Product Number 5445)

Manufacturer's Name:
Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810

Date of Preparation: March 3, 2007
Information Telephone Number: (978) 623-9987
Emergency Telephone Numbers:
Weekdays: (978) 623-9987
After hours, weekends & holidays: "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
Petroleum Distillate	Aromatic Naphtha	28	6472-95-6	100 ppm		
2-butoxyethanol	Butyl Cellosolve	15	111-76-2	25 ppm		
2-propoxyethanol	Ethylene glycol monopropyl ether	9	2807-30-6	25 ppm (see note 1)		

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

The following data are approximate or typical values and should not be used for precise design purposes.

Boiling Range of major constituent (Aromatic Naphtha)	155-173°C	Specific Gravity (H ₂ O=1) WGT/GAL, LBS:	8.5
Vapor Pressure (mm Hg) Aromatic Naphtha	10 mm @ 68°F	Melting Point	N/A
Vapor Density (AIR=1) (Aromatic Naphtha) Heavier Lighter Aromatic Naphtha	x	Evaporation Rate (Butyl Acetate=1) Aromatic Naphtha	0.2
Solubility in Water	Nil.	Appearance: Amber Liquid Odor: Aromatic odor	Max. VOC's (combined components): 600 g/1 (5.0 lbs/gal)

Section IV - Fire and Explosion Hazard Data

Flash Point: 108°F SETA	Flammable Limits: LEL: .9% UEL:6.0%	DOT Hazard Class: Combustible Liquid	DOT Proper Shipping Name: Paint Related Material	DOT ID#: UN-1263
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See page 2 for information on recommended EXTINGUISHING MEDIA, SPECIAL FIRE FIGHTING PROCEDURES and UNUSUAL FIRE AND EXPLOSION HAZARDS.

Section V - Reactivity Data

Hazardous Polymerization: Will not occur. Stability: Stable

Incompatibility/Conditions and materials to avoid: Avoid heat, flame and contact with strong oxidizing agents, amines, acids, hydroxyl or other active hydrogen compounds

Hazardous Decomposition Products: Carbon monoxide and unidentified organic compounds may be formed during combustion.

Section VI - Health Hazard Data, Toxicity Data

Route(s) of Entry: Inhalation, Skin, Ingestion

Carcinogenicity?: No.

Health Hazards (Acute and Chronic): Note: Intentional misuse by deliberately concentrating and inhaling fumes may be harmful or fatal.

EFFECTS OF OVEREXPOSURE:

ACUTE (Short Term): Anesthetic. Irritant. May cause headache and nausea. Irritation of the respiratory tract or central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma.

CHRONIC (Long Term): May cause respiratory sensitization, liver or kidney damage. May cause skin sensitization. Permanent central nervous system changes can occur because of solvent exposure.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Respiratory allergies. Chronic diseases of the skin, nose, throat, and lungs, central nervous system, liver, kidney, blood, eyes.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Move person to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

SPLASH (EYES): Flush eyes immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment. SPLASH (SKIN): Wash affected skin areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. INGESTION: If swallowed, call a physician immediately. Never give anything by mouth to an unconscious person. Treat symptomatically.

NOTES:1. Level not established, 25 ppm set by Celanese Corp. 2. Also contains Epoxides (epoxy resin) present as epichlorhydrin bisphenol A polymer whose exposure values are not established but whose toxicity Oral LD50 (rat) is 13,300 mg/kg. 3. Caution: Once this Component "B" is intermixed with Component "A", the resulting mixture bears the hazards of both components.

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.: CHEMICAL INGREDIENTS:
64742-95-6 Aromatic naphtha
111-76-2 2-butoxyethanol
2807-30-9 2-propoxyethanol
25068-38-6 Epoxy resin solids

HMIS HAZARD RATING			
Health 2	Flammability 3	Physical Hazard 0	Personal Protection G
HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			
PERSONAL PROTECTION CODE			
G = Safety Glasses, rubber gloves, organic vapor respirator			

FIRE AND EXPLOSION HAZARD DATA (Continued from Section IV on Page 1)

Extinguishing Media: Foam, dry Chemical or Carbon Dioxide

Special Fire Fighting Procedures: Use supplied-air breathing equipment for enclosed areas. Cool exposed containers with water spray. Minimize breathing vapor or fumes.

Unusual Fire and Explosion Hazards: Do not mix or store with strong oxidants such as liquid chlorine or concentrated oxygen.

"Empty" product containers retain product residue. Do not pressurize, cut, heat, weld, or expose such containers to flame; they may explode and cause injury or death.

Section VII: Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Ventilate area. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact.

WASTE DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), State and Local regulations. Before attempting cleanup, refer to hazard caution information in other sections of the MSDS. Use a licensed hazardous waste disposal firm.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store or use near heat or open flame. Refer to OSHA 79CFR PART 1910.106 for specific storage requirements. Keep closure tight and container upright to prevent leakage. Drums of this material should be grounded and bonded when pouring. Do not weld or flame cut an empty drum.

OTHER PRECAUTIONS: Do not get in eyes. Avoid skin contact. Can cause allergic respiratory reaction. Can cause allergic skin reaction. Prevent prolonged or repeated breathing of vapor or spray mists. Do not handle until the manufacturer's safety precautions have been read and understood. Do not weld or flame-cut an empty drum. Avoid breathing sanding dusts

Section VIII: Control Measures

RESPIRATORY PROTECTION: Use (MSHA/NIOSH- approved or equivalent) chemical/mechanical filters designed to remove a combination of particulates and organic vapor in open and restricted ventilation areas. Use approved airline type respirators or hoods in confined areas.

VENTILATION: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. Heavy solvent vapors should be removed from the lower levels of work area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable/air mixtures will be encountered. All application areas should be ventilated in accordance with OSHA regulation 29CFR Part 1910.94.

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

EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSI Z-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. Use full face shield, apron, or other appropriate equipment.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using the washroom. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored.

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, 12th edition, National Fire Protection Association, Quincy, MA, 1997.
6. Title III List of Lists, U.S. Environmental Protection Agency publication EPA 560/4-90-011, January 1990.