# 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: Piranha® III (5730)

Manufacturer's Name:
Fiberlock Technologies, Inc.
630 Putnam Avenue
Cambridge, MA
02139-0802
Mail Address:
P.O. Box 390432
Cambridge, MA 02139-0802

Date of Preparation: August 30, 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 Components: | Common Names: | % | ACGIH (TLV-TWA) | OSHA PEL or ACGIH TLV: |
|---|---|---|---|---|
| *Sodium Hydroxide | (1305-73-2) | <20 | | 2 ppm |
| Calcium Hydroxide | (1305-62-0) | <30 | | 5 ppm |
| Magnesium Hydroxide | (1309-42-8) | <10 | | Not Est. |

## SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Points of Major Constituent: | Not Established | Specific Gravity ($H_2O$=1) Wgt./gal. | 1.2 lbs./gal. |
| Vapor Pressure (mm Hg) @ 100°C | Not Applicable | Melting Point Water (Ice) | N/A |
| Vapor Density (AIR=1)<br>Heavier<br>Lighter | Not Applicable | Evaporation Rate<br>(Butyl Acetate=1) | 1 |
| Solubility in Water | Dispersible | Appearance: White Paste<br>Odor: Slight odor | |

## SECTION IV: FIRE AND EXPLOSION HAZARD DATA

| Flash Point: | Flammable Limits: | DOT Proper Shipping Name: | DOT ID#: | Marking: |
|---|---|---|---|---|
| Not Applicable | LEL: N/A UEL: N/A | Corrosive liquids, n.o.s. 8 | UN-1760 | "Keep from Freezing" |

**Special Firefighting Procedures**: Wear NIOSH approved breathing apparatus and full protective gear when fighting fires. Spray containers with water to keep cool and prevent ruptures.

**Unusual Fire and Explosion Hazards**: Avoid exposure to aluminum, acid products.

## SECTION V: REACTIVITY DATA

Hazardous Polymerization: Will not occur
Stability: Material is stable
Incompatibility (Materials to Avoid): Contact with strong acids can cause violent reaction generating large amounts of heat. Aluminum.
Hazardous Decomposition Products: Hydrogen gas

## SECTION VI: HEALTH HAZARD DATA/TOXICITY DATA

Primary Route of Exposure: Dermal, Inhalation, Eye
PHYSIOLOGICAL EFFECTS: Inhalation: Aspiration of the product will cause irritation and possible burning of the nose and throat. Eye Contact: This material is an eye irritant and will also cause severe burns. Skin Contact: Will cause severe burns. Ingestion: Ingestion of this product may cause severe burns to internal organs. Inhalation: Aspiration of the product will cause irritation and possible burning of the nose and throat. Chronic Effects: Eye, mucous membrane irritation.
EMERGENCY AND FIRST AID PROCEDURES: Inhalation: Leave contaminated area immediately; breath fresh air. Seek immediate medical attention. Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes and seek medical attention. Skin Contact: Remove contaminated clothing, wash skin with water for 15 minutes. Ingestion: Give large quantities of water. Do not induce vomiting. Seek immediate medical attention.
CHRONIC EFFECTS: Eye, mucous membrane irritation.

**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 |
|---|---|
| 7732-18-5 | Water |
| 1305-73-2 | Sodium Hydroxide |
| 1305-62-0 | Calcium Hydroxide |
| 1309-12-8 | Magnesium Hydroxide |

| HMIS HAZARD RATING | | | |
|---|---|---|---|
| Health 3 | Flammability 0 | Reactivity 1 | Personal Protection D |
| HAZARD INDEX | | | |
| 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe | | | |
| PERSONAL PROTECTION CODE | | | |
| D = Face Shield, Synthetic Apron, Gloves | | | |

* Note: This product contains this toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

## SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain fluid by diking. Neutralize with soda ash or baking soda. Flush away small spills with water. May also be absorbed onto an inert absorbent.

WASTE DISPOSAL METHOD: Landfill the absorbed materials at an industrial landfill which has approval to receive such materials.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Maximum storage temperature 100°F. Keep closure tight and container upright to prevent leakage.

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: 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 respirator 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: Wear Rubber or PVC Gloves.

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.

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.