

MATERIAL SAFETY DATA SHEET

Shield Industries, Inc.
Day Telephone: (770) 517-6869

131 Smokehill Lane

Woodstock, GA 30188
Emergency Telephone: 1-800-535-5053

ForceField[®] MoldBlock[™] - Mold & Mildew Inhibitor Concentrate

Section I Product Identification

Product ID: F MBLC
Last Revision Date: 08/01/01
Preparer: R. Lasnik, Vice President

Generic Description: Aqueous Organosilane
Physical Form: Liquid
Color: Colorless to pale yellow
EPA Registration Number: 70871-5-72251

----- Composition, Information on Ingredients -----

Section II Hazardous Ingredients

N/A - Not Available CAS#= Chemical Abstract Service Number

INGREDIENTS	CAS #	TWA	STEL	% by Weight
Octadecylaminodimethyltrimethoxysilylpropyl ammonium chloride	27668-52-6	N/A	N/A	5%
Methanol (methyl alcohol)	67-56-1	200 ppm	250 ppm	<3
Chloropropyltrimethoxysilane	2530-87-2	0.1 ppm	N/A	<3

Note: The above information is not intended for use in preparing product specifications.

Section III Hazards Identification Emergency Overview

Appearance and Odor: Colorless to pale yellow liquid, odorless to slight alcoholic
Primary Routes of Entry: Skin contact, Eye contact, Inhalation

This material contains the following components with the special hazards listed below .

<u>Carcinogens</u>	<u>Teratogens</u>	<u>Reproductive Toxins</u>	<u>Sensitizers</u>
None Known	None Known	None Known	None Known

Mutagens

Chloropropyl trimethoxysilane; CAS# 2530-87-2; Positive in the Ames Test; Genetically Active in VIVO Assay

Comments: Chloropropyltrimethoxysilane. was found to be genetically active via inhalation in a bone marrow micronucleus assay (female rats exposed to 200 ppm/day for 28 days). In the same assay, no evidence of genetic activity was found in mice exposed to 500, 1000 or 1625 mg/kg by I.P. injection. The potential relevance of this to humans has not yet been determined.

Section IV First Aid Measures

Signal Word: **Warning**

Emergency First Aid Procedures:

IF IN EYES - Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF INHALED - Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED - Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, eggwhites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN - Wash thoroughly with soap and water. Get medical attention if irritation or ill effects develop or persist.

Section V Fire Fighting Measures

Physical and Chemical Characteristics (Fire and Explosion Data)

Boiling Point (760 MM HG).....	N/A
Specify Gravity (At 68°F/20°C).....	1.0 g/mL
Vapor Pressure	N/A
Viscosity (At 68°F/20°C).....	393 mPa·s
pH (approximately).....	5
Solubility in Water.....	Complete
Reactivity in Water.....	None
Appearance and Odor.....	Pale yellow liquid, slight alcoholic odor
Flash Point.....	N/A
Flammable or Explosive Limits	N/A
Unusual Fire & Explosion Hazards.....	N/A
Hazardous Polymerization.....	Will not occur

Section VI Accidental Release Measures

Steps to be taken if material is released or spilled: Do not contaminate water, food, or feed by material.

Water Disposal Methods: Dispose according to Federal RCRA and applicable state and local regulations.

Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations.

Inactivation of solutions containing ForceField® MoldBlock™ may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of ForceField® MoldBlock™ in solution.

Section VII Handling and Storage

Handling: Hazard to humans and domestic animals. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes and avoid breathing dust, vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Precautions to be taken in handling and storage - Do not freeze product

De-activation for disposal - addition of an anionic surfactant in quantity equal to ForceField® MoldBlock™ in solution.

Do not contaminate water, food, or feed by storage and disposal.

Section VIII Exposure Controls, Personal Protection

Engineering Controls: Recommended

General Ventilation: Recommended

Personal Protective Equipment (PPE):

Respiratory Protection: Utilize respiratory protective equipment in accordance with 29 CFR1910.134 if other protective measures do not adequately control exposures.

Eye Protection: Safety goggles and face shield or safety glasses with side shields.

Skin protection: Wear chemical resistant, impervious gloves such as PVC coated or butyl rubber.

Section IX Physical and Chemical Properties

Physical Form:	Clear liquid	Color:	Light yellow
Odor:	Odorless or slight alcoholic	Boiling Point:	N/A
Freezing Point:	N/A- do not freeze product	Solubility in Water:	Complete
Volatile Content (>0.1 mmHg):	<10%		

Section X Stability and Reactivity

Chemical Stability: Under normal conditions this material is stable. Product should not be frozen.

Hazardous Polymerization: Hazardous polymerization will not occur

Incompatibility: Acids, alkalis, strong oxidizing agents and anionic surfactants.

Section XI Disposal Considerations

Contaminated product/soil/water may be RCRA/OSHA hazardous waste. Landfill solids at permitted sites. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations.

Inactivation of solutions containing ForceField® MoldBlock™ may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of ForceField® MoldBlock™ in solution.

Section XII Transport Information

Dot Information: Not Regulated

Section XIII Regulatory Information

US Federal Regulations

TSCA (Toxic Substances Control Act) Status:

One or more of the components of this product may not be listed on the TSCA inventory of chemical substances.

CERCLA RQ - 40 CFR 302.4(a): Methanol 67-56-1 5000 Lb RQ

SARA 302 Components - 40 CFR 355 Appendix A: None

Section 311/312 Hazard Class - 40 CFR 370.2

Acute: Yes Chronic: Yes Fire: Yes

Pressure: No Reactive: No

Section 313 Components - 40 CFR 372.65: Methanol 67-56-1

Section XIV Other Information

This information is offered in good faith as typical values and not as product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

***** This is the last Page *****