

## Fi-Foil Company, Inc.

### Safety Data Sheet

### M-Shield Reflective Insulation

#### Section 1: Identification

**Product Name:** M-Shield

**Synonyms:** F-MSHIELD16500HP, F-MSHIELD24500HP

**Product Use Description:** Used to insulate masonry building walls constructed with wood or metal furring strips.

**Company:** Fi-Foil Company, Inc.  
PO Box 800, 612 Bridgers Ave. W.  
Auburndale, FL 33823  
www.FiFoil.com

**Company Contact Phone Number:** 863-965-1846. For emergency and general information 8:00am to 5:00pm (Eastern Time) Monday-Friday.

#### Section 2: Hazard(s) Identification

**Classifications:**

This product is a manufactured article as defined in the OSHA Hazard Communication Standard. During normal use no exposure to the hazardous ingredients occurs. A SDS is not required. This SDS is provided for informational purposes.

#### HAZARDOUS MATERIAL INFORMATION SYSTEM:(USA)

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	X

Precautionary Statements: None

#### Section 3: Composition/Information on Ingredients

INGREDIENT NAME	CAS Number	Conc. (%w/w)
Aluminum Metal	7429-90-5	18-20
Silicon	7440-21-3	.018-.022
Iron	7439-89-6	.027-.033
Copper	7440-50-8	.0036-.0044
Manganese	7439-96-5	.0036-.0044

Magnesium	7439-95-4	.0036-.0044
Chromium	7440-47-3	.0018-.0022
Zinc	7440-66-6	.0018-.0022
Vanadium	7440-62-2	.0009-.0011
Titanium	7440-32-6	.00014-.0017
Aluminum Oxide, fibrous	1344-28-1	0.32-0.97
Paraffin wax, hydrocarbon wax	8002-74-2	0.16-0.32
Polypropylene	9003-07-0	60.0-64.0
Polyester Film	25038-59-9	15.0-22.0

**Product Components:** 100% Polypropylene Spun-bond Nonwoven Fabric, Polyester film "Lumirror", aluminum metal, hot melt adhesive.

## Section 4: First-Aid Measures

**Eye Contact:** If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.

**Skin Contact:** Wash exposed skin with soap and water. Molten adhesive may cause severe burns. Cool melted product on skin with plenty of water. Do not remove solidified product. No attempt should be made to remove material from skin or to remove contaminated clothing as damaged skin can be easily torn. Cover affected areas either clean sheeting or gauze and seek immediate medical attention.

**Inhalation:** Not a likely route of exposure.

**Ingestion:** Ingestion of solid adhesive is not expected to be hazardous. If symptoms develop and persist, get medical attention.

**Notes to Physician:** Symptomatic and supportive therapy as needed.

## Section 5: Fire-Fighting Measures

**Flash Point:** solid not applicable

**Fire and Explosion Hazards:** None

**Extinguishing Media:** Use extinguishing measures appropriate to local circumstances and the surrounding environment; water, foam, dry chemical, CO<sup>2</sup>.

**Hazardous Decomposition Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Fire Fighting Procedures:** Wear positive pressure self-contained breathing apparatus(SCBA). Wear full protective equipment.

**Further Information:** NFPA Hazard Code

Health	1
Flammability	1
Reactivity	0
Special Hazard	None

0= Minimal      1= Slight      2=Moderate      3= High      4= Extreme

## Section 6: Accidental Release Measures

**Personnel Precautions:** None due to material form.

**Environmental Precautions:** None due to material form.

**Methods of Cleaning Up:** None due to material form.

## Section 7: Handling and Storage

**Precautions for Safe Handling:** Avoid skin contact with molten resins.

**Conditions for Safe Storage, Including Incompatibilities:** Rolls may telescope. Plastic packaging materials can pick up a static charge. Rolls packaged with shrink wrap or other plastic over wrap should be opened or unwrapped only in non-process areas where ignition sources such as solvents are not in use or in storage.

Store away from heat and sources of ignition. Do not store outside or in direct sunlight. Avoid exposure to oxidizing agents. Recommended storage temperatures are 20F to 100F.

## Section 8: Exposure Controls/Personal Protection

**Engineering Measure:** Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

**Eye Protection:** Safety glasses with side shields or safety goggles are recommended during installation.

**Hand Protection:** Use impermeable gloves while handling material during installation, removal or disposal. Wash hands before eating or handling foods.

**Respiratory Protection:** No personal respiratory protective equipment normally required. Where the potential exists for exposure to decomposition products due to heating or elevated temperatures, wear NIOSH approved respiratory protection as appropriate.

**Work/Hygiene Practices:** Installation sites might require safety considerations such as working in attics or confined spaces. Make sure there is sufficient ventilation. Wear hard hat where there the potential for injury due to exposed nails or other such hazards in the area where the product is being installed.

## Section 9: Physical and Chemical Properties

**Physical State:** Solid

**Flash Point:** Solid Not Applicable

**Appearance:** Brown/Foil

**Solubility in Water:** Insoluble

**Odor:** None

**Flammability:** ASTM E84-E2599 Class I (or A)

**Evaporation Rate:** Solid not applicable

**Flash Point:** Solid not applicable

**Vapor Pressure:** Not Applicable

**Decomposition Temperature:** Unknown

**Boiling Point:** Not applicable

**Auto Ignition Temperature:** Unknown

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** None

**Hazardous Decomposition or By-Products:** Thermal decomposition can lead to release of irritation gases and vapors, carbon monoxide, carbon dioxide.

**Incompatible Materials:** exposure to oxidizing agents

**Conditions to Avoid:** Direct sunlight and moisture.

## Section 11: Toxicological Information

**Primary route(s) of Exposure:** Skin contact

**Inhalation:** Unlikely to occur under recommended storage conditions.

**Skin Contact:** Some individuals may experience skin sensitivity or minor irritation due to paper and polyethylene dust residue, oil on aluminum or film additives. Molten adhesive may cause severe burns.

**Eye Contact:** Molten adhesive may be irritating to eyes.

**Ingestion:** Non-hazardous.

**Chronic Effects:** No data available.

**Carcinogenicity:** The ingredients of the product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogen by NTP.

**Mutagenicity:** No applicable data.

**Reproductive Effects:** No applicable data.

**Teratogenicity and Fetotoxicity:** No applicable data.

## Section 12: Ecological Information

**Ecotoxicity:** Not applicable

**Persistence and Degradability:** Not classified as readily biodegradable.

**Bio-accumulative Potential:** No evidence of occurrence.

**Mobility in Soil:** Not applicable

**Other Adverse Effects:** None

### Section 13: Disposal Considerations

Dispose of in accordance with existing federal, state and local environmental control regulations. This material is not a hazardous waste under RCRA CFR261 when disposed of in its purchased form.

### Section 14: Transport Information

FDOT: Non-Regulated

IMDG/IMO: Non-Regulated

ICAO/IATA: Non-Regulated

Reportable Quantity(RQ): Non-Regulated

### Section 15: Regulatory Information

#### U.S. FEDERAL REGULATIONS

**TSCA (Toxic Substance Control Act):** All components are either listed or exempt from TSCA

**CERCLA: Hazardous Substance:** No products were found.

**SARA 302 Extremely Hazardous Substances:** None

**SARA 311/312 Hazard Categories:** None

**SARA 313 Reportable Ingredients:** No products were found.

**SARA 313 Toxic Chemical and Release Reporting:** No products were found.

#### STATE REGULATIONS

**CA Prop 65:** This product is not known to contain any components listed on California's Proposition 65 List.

#### STATE RIGHT-TO-KNOW

Component	CAS	CA	FL	MA	MN	NJ	PA	RI
None								

### Section 16: Other Information

**Published Date:** December 5, 2007

**Revision:** Rev.20190322

**Reasons for Revisions:** New Format

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge. The information given is designed only as a guide for safe handling, use, installation, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Fi-Foil Company, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.