



# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** FSK Shield

**Recommended use:** Vapor Retarder for Thermal Insulation

**Manufacturer Name:** Fi-Foil Company, Inc.  
612 Bridgers Ave. W.  
Auburndale, FL 33823

**Telephone number:** 863-965-1846

**Emergency phone number:** 863-965-1846 (M-F 8:30 to 5:00)

**Date of Preparation:** February 26, 2016

## 2. HAZARD(S) IDENTIFICATION

**Classification:**

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.

| Physical      | Health        |
|---------------|---------------|
| Not Hazardous | Not Hazardous |

**Labeling:**

None required

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical name     | CAS No.     | Concentration |
|-------------------|-------------|---------------|
| Cellulose         | 9004-34-6   | 35 - 55       |
| Yarn              | Proprietary | 5 - 20        |
| Aluminum          | 7429-90-5   | 15 - 30       |
| Coating           | Proprietary | 0 - 10        |
| Antimony Trioxide | 1309-64-4   | - <2          |
|                   |             |               |
|                   |             |               |

\*Antimony Trioxide is inextricably bound within the polymer matrix of this product and not considered a hazardous chemical under the OSHA standard (29 CFR 1910.1200) per (b)(2).

**The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.**

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P: 863.965.1846, F: 863.967.0137, E: [info@fifoil.com](mailto:info@fifoil.com), W: [www.fifoil.com](http://www.fifoil.com)

#### 4. FIRST-AID MEASURES

**Inhalation:** First aid is not normally required.

**Skin contact:** No first aid required.

**Eye contact:** Flush with water. Seek medical attention if irritation persists.

**Ingestion:** No first aid required.

**Most important symptoms/effects, acute and delayed:** No adverse effects expected.

**Indication of immediate medical attention and special treatment, if necessary:** No immediate medical attention is normally required

#### 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use any media that is suitable for the surrounding fire.

**Specific hazards arising from the chemical:** Combustion may yield oxides of carbon and aluminum.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** No special precautions required.

**Methods and materials for containment and cleaning up:** Pick up or sweep up and place in a container for disposal.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Store in a dry location. Protect from physical damage.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure guidelines:**

|                   |   |
|-------------------|---|
| Cellulose         | 10 mg/m <sup>3</sup> TWA ACGIH TLV, 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust), 5 mg/m <sup>3</sup> TWA (respirable fraction) |
| Yarn              | None Established  |
| Aluminum          | 1 mg/me TWA ACGIH TLV (respirable), 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust), 5 mg/m <sup>3</sup> TWA (respirable fraction) |
| Coating           | None Established  |
| Antimony Trioxide | 0.5 mg/m <sup>3</sup> TWA ACGIH TLV<br>0.5 mg/m <sup>3</sup> TWA OSHA PEL   |
|                   |   |
|                   |   |

**Appropriate engineering controls:** None normally required.

**Personal Protective Equipment:**

**Respiratory protection:** No respiratory protection is normally needed.

**Skin protection:** Wear appropriate gloves when handling to prevent cuts and abrasions.

**Eye protection:** Safety glasses recommended for cutting and other operations where particles may be generated.

**Other:** None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Solid laminated material

**Odor:** None

|   |   |
|---|---|
| <b>Odor threshold:</b> Not applicable                         | <b>pH:</b> Not applicable                       |
| <b>Melting Point/Freezing Point:</b> Not applicable           | <b>Boiling Point:</b> Not applicable            |
| <b>Flash point:</b> None                                      | <b>Evaporation rate:</b> Not applicable         |
| <b>Flammability (solid, gas):</b> Not applicable              |   |
| <b>Flammable limits: LEL:</b> Not applicable                  | <b>UEL:</b> Not applicable                      |
| <b>Vapor pressure:</b> Not applicable                         | <b>Vapor density:</b> Not applicable            |
| <b>Relative density:</b> Not available                        | <b>Solubility(is):</b> Insoluble                |
| <b>Partition coefficient: n-Octanol/water:</b> Not applicable | <b>Auto-ignition temperature:</b> Not available |
| <b>Decomposition temperature:</b> Not available               | <b>Viscosity:</b> Not applicable                |

## 10. STABILITY AND REACTIVITY

**Reactivity:** None known.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Avoid direct heat and open flames.

**Incompatible materials:** None known.

**Hazardous decomposition products:** Thermal decomposition may produce oxides of carbon and aluminum and other organic vapors.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** No adverse effects are expected

**Ingestion:** Ingestion is unlikely.

**Skin contact:** No adverse effects are expected

**Eye contact:** Eye contact may cause abrasions.

**Chronic effects from short- and long-term exposure:** No adverse effects are expected.

**Reproductive Toxicity:** No adverse effects are expected.

**Sensitization:** None of the components are sensitizers.

**Mutagenicity:** No evidence of mutagenic effects.

**Carcinogenicity:** Antimony Trioxide is listed by IARC as a 2B carcinogen (probably carcinogenic to humans). However, antimony trioxide is inextricably bound in the product matrix and no exposure will occur. No other ingredients are listed by IARC, NTP, OSHA, or the EU CLP.

**Acute Toxicity Values:**

Aluminum: Oral rat LD50 > 15900 mg/kg, inhalation rat LC50 > 0.888 mg/L.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Aluminum: *Lepomis cyanellus* NOEC > 50 mg/L/96hr

This product is not expected to present an environmental hazard.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and federal regulations.

**14. TRANSPORT INFORMATION**

|      | UN Number | Proper shipping name | Hazard Class | Packing Group | Environmental Hazard |
|------|-----------|----------------------|--------------|---------------|----------------------|
| DOT  | None      | Not Regulated        | None         | None          | None                 |
| TDG  | None      | Not Regulated        | None         | None          | None                 |
| IMDG | None      | Not Regulated        | None         | None          | None                 |
| IATA | None      | Not Regulated        | None         | None          | None                 |

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known

**15. REGULATORY INFORMATION**

**CERCLA:** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under applicable federal, state and local regulations.

**SARA Hazard Category (311/312):** Not Applicable (manufactured articles)

**SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):**

| Components                                 | C.A.S. #  | WT % |   |    |
|--|-----------|------|---|----|
| Aluminum (reportable as dust or fume only) | 7429-90-5 | 15   | - | 30 |

**California Proposition 65**

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects):

| Components        | C.A.S. #  | WT % |
|-------------------|-----------|------|
| Antimony Trioxide | 1309-64-4 | <2   |

**EPA TSCA Inventory:** This is a manufactured article and not subject to TSCA.

**16. OTHER INFORMATION**

**NFPA Rating:** Health = 0                      Flammability = 1                      Instability = 0  
**HMIS Rating:** Health = 0                      Flammability = 1                      Physical Hazard = 0

**SDS Revision History:** New  
**Date of preparation:** February 26, 2016  
**Date of last revision:** New

**NOTICE:**

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Fi-Foil Company, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.