

# Material Safety Data Sheet

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## Product Identity

B-3 Silver Shield Multi-Layer Radiant Barrier

## Description

Fi-Foil B-3 Silver Shield is a multi-layer product comprised of a inside layer of 1.4 mil metalized polyvinyl chloride film with 134.6 angstroms of aluminum, vacuum deposited on one side. The outer layer is 0.000285 aluminum foil laminated with a fire retardant adhesive to 30 pound natural kraft paper that is reinforced with a tri-directional fiberglass and polyester scrim. The layers expand when installed to form a reflective air space. It is intended for use in building application as an attic radiant barrier.

## Section I - Manufacturer Information

Fi-Foil Company, Inc.  
612 Bridgers Avenue West  
P.O. Box 800  
Auburndale, Florida, USA 33823  
(863) 965-1846 phone  
(863) 967-0137 fax

## Section II - Hazardous Ingredients / Identity Information

### Components:

**Outer Foil** - 99% pure aluminum 0.000285 gauge, Temper 0, Alloy 1145

**Paper** - 30 pound kraft paper

Product is not hazardous as defined by 29 CFR 1910.1200.

**Inner Foil** - 1.4 mil metalized PVC.

**Expanders** - 26 pound medium recycled paper

Product is not hazardous as defined by 29 CFR 1910.1200.

**Glue** - Hot melt, PVA based adhesive

Product as shipped is not known or expected to be hazardous under criteria of the federal OSHA hazard communication standard 29 CFR 1910.1200.

### **Section III - Physical Data**

Boiling Point - Not Applicable  
Vapor Pressure - Not Applicable  
Vapor Density - Not Applicable  
Specific Gravity - Not Determined  
Melting Point - Not Applicable  
Evaporation Rate - Not Applicable  
Solubility in Water - Not Soluble  
Appearance and Odor - See Description

### **Section IV - Fire and Explosion Hazard Data**

Flash Point - Not Applicable

Flammable Limits - Not Applicable

Extinguishing Media:

Water Fog, Foam, Carbon Dioxide or Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus when fighting fires. Hot melt adhesive and polyethylene film becomes molten at elevated temperatures. Water stream applied directly to molten / burning material may cause spattering and spreading of the fire.

Unusual Fire and Explosion Hazards:

Material will decompose during combustion or under pyrolysis conditions giving off toxic fumes irritable or harmful to the respiratory system. See Hazardous Combustion and Decomposition Products.

## **Section V - Reactivity Data**

### **Stability**

Stable under normal conditions.

### **Conditions to Avoid:**

Avoid direct exposure of material to open flames, electric arcs, heating elements, and other ignition sources which induce combustion and / or thermal decomposition.

### **Incompatibility (Materials to Avoid):**

Strong Oxidizing Agents (such as fertilizer, household bleach)

### **Hazardous Polymerization:**

Will Not Occur

### **Hazardous Combustion and Decomposition Products:**

Carbon Monoxide, Aluminum Oxide, Carbon Dioxide, Acrid (choking) Smoke and Fumes, Vinyl Acetate, Acetic Acid, Various Hydrocarbons, other Unidentified Toxic Materials

## **Section VI - Health Hazard data**

### **Primary Routes of Entry:**

Eye and skin contact with material in shipped form or in combustion.

### **Effects of Acute Overexposure:**

For Each Potential Route of Exposure

#### **Eye Contact:**

Contact with Material in shipped form may cause mechanical irritation.  
Contact with combusting material may cause burns and irritation (tearing and redness).

Skin Contact:

Contact with Material in shipped form may cause mechanical irritation.  
Contact with combusting material may cause burns.

Skin Absorption:

None known and by nature of product none expected.

Inhalation:

None is anticipated at ambient temperature. Vapors or fumes from combustion may cause nasal and respiratory irritation, excessive inhalation of vapors or fumes may cause labored breathing, cough, sore throat, headache, dizziness and unconsciousness.

Ingestion:

None known.

Emergency and First Aid Procedures:

Get immediate medical attention if any symptoms of overexposure occur.

If in Eyes:

If material is in shipped form, treat as a foreign object, flush with water and if irritation or injury develops, see a physician. If material is in combustion or heated to elevated temperature immediately flush (or immerse) eye with large amounts of cold, clean water to reduce temperature and relieve pain. Get medical attention immediately. Do not removed solidified material. Treat as a burn.

If on Skin:

If material is in combustion or heated to elevated temperature immediately immerse contact area in cold, clean water or flush contact area with cold, running water to cool contact area and relieve pain. Get medical attention immediately. Do not attempt to remove solidified material from skin without medical assistance. Treat as a burn. For irritation from material in shipped form wash affected area with soap and water. Treat cuts and abrasions. See a physician for severe irritation.



If Breathed:

If affected by material in combustion, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

If Swallowed:

Get medical attention.

Effects of Chronic Overexposure:

Material in shipped form has no known effects.

Medical conditions aggravated by exposure:

None known.

## **Section VII - Spill, Leak and Disposal Procedures**

Released Material:

In shipped form, scoop up and place in container. If material is in combustion or has elevated temperature, remove persons not wearing protective equipment, extinguish fire, allow to cool, then pick up and place in container. Wear appropriate respiratory, eye, and skin protection as needed during cleanup.

Waste Disposal Method:

Dispose of material in accordance with applicable local, county, state, and federal regulations for a non-hazardous waste.

## **Section VIII - Special Protection Information**

Respiratory Protection:

Not Normally required.

Ventilation:

Not Normally required.

Protective Gloves:

The use of impermeable gloves are advised to prevent skin irritation from edges and creases in material during installation, removal, or disposal.

**Eye Protection:**

Safety glasses or goggles are recommended to safeguard against potential eye contact, irritation, or injury during stapling or from solid material.

**Other Protective Equipment:**

Not normally required.

**Section IX - Special Precautions and Other Comments**

**Storage and Handling Precautions:**

Store in a cool dry, ventilated area. Keep away from heat and open flame. Practice safe working conditions and good personal hygiene. Use protective equipment when necessary, wash thoroughly after handling and before eating, drinking, smoking, or using the toilet facilities. Product in combustion or exposed to elevated temperatures of 200 degrees or greater will cause product degradation.

**Other Comments:**

The responsibility to provide a safe work place remains with the user. The user should consider the health hazards and safety information contained herein as a guide. The user should take those precautions required in an individuals operation and application of the product. Instruct employees and develop work practice procedures for a safe work environment.

The information contained herein is, to the best of our knowledge and belief, accurate. However, because the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all federal, state, and local laws and regulations.