



# Ultra NT for SCIFs

## RF SHIELDING (SOLID)

### SKUs:

EF1800-48-125SCIF, EF1800-48-250SCIF,  
EF15513, EF11702, EF-SPRAYLOCK,  
EF-WINTER-SPRAYLOCK, EF4FS032,  
EF4FS032-CASE

### Application Summary:

RF shielding in SCIF rooms, data storage,  
corporate, government, and military  
applications



### Contact Us

888.349.3645  
customerservice@ecofoil.com

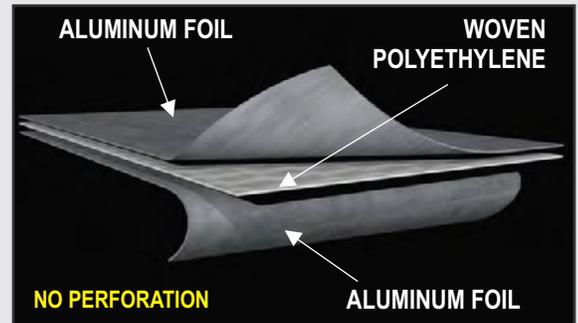


**Product Description:**

Page 1 of 2

rFOIL® Ultra NT Radiant Barrier is a heavy duty radiant barrier sheet made up of a single layer of woven polyethylene material bonded to and sandwiched between two highly reflective aluminum foil surfaces.

Ultra NT Radiant Barrier is designed to be used in Sensitive Compartmented Information Facilities (SCIF's). In addition to being a highly effective radiant barrier, Ultra NT solid is also an approved vapor barrier.



**Features:**

- Minimum Shielding Effectiveness (100MHz – 10GHz): 85 dB
- Wider frequency test results available
- Highly reflective radiant barrier aluminum foil surface
- Reflects 97% of Radiant Heat
- Thermal performance unaffected by moisture
- Unrolls and cuts easily
- Durable and flexible woven polyethylene base
- Increases sound attenuation for SCIF's

**Applications:**

- Sensitive Compartmented Information Facilities (SCIF's)

**Stock Roll Sizes:**

Size:	48" x 125' (Solid)
Part No.	EF1800-48-125SCIF

**(SOLID product)**  
No Perforation

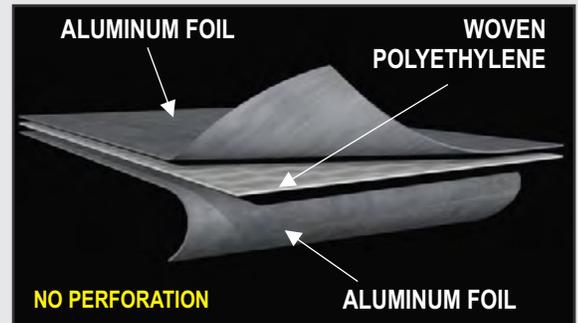


PHYSICAL PROPERTIES	TEST	VALUE
EMISSION	ASTM C1371-04A	0.03
REFLECTIVITY	—	0.97
CORROSIVENESS	ASTM D3310-00	PASSES
FIRE RATING	ASTM E84-10	CLASS 1 / CLASS A
	ASTM E84-10	FLAME SPREAD = 0 / SMOKE DEVELOPED = 20
BLEEDING and DELAMINATION	ASTM C1224-03	NO BLEEDING or DELAMINATION
PLIABILITY	ASTM C1224-03	NO CRACKING
WATER VAPOR PERMEABILITY	ASTM E96-05	0.01 Perms
RESISTANCE TO FUNGI	ASTM C1338-08	PASSES
TENSILE STRENGTH TEAR RESISTANCE	ASTM D2261	LENGTH: 14.93 lbs
		WIDTH: 15.13 lbs
SHIELDING EFFECTIVENESS	IEEE-299-2006	(100Mhz - 10Ghz) : 85 dB

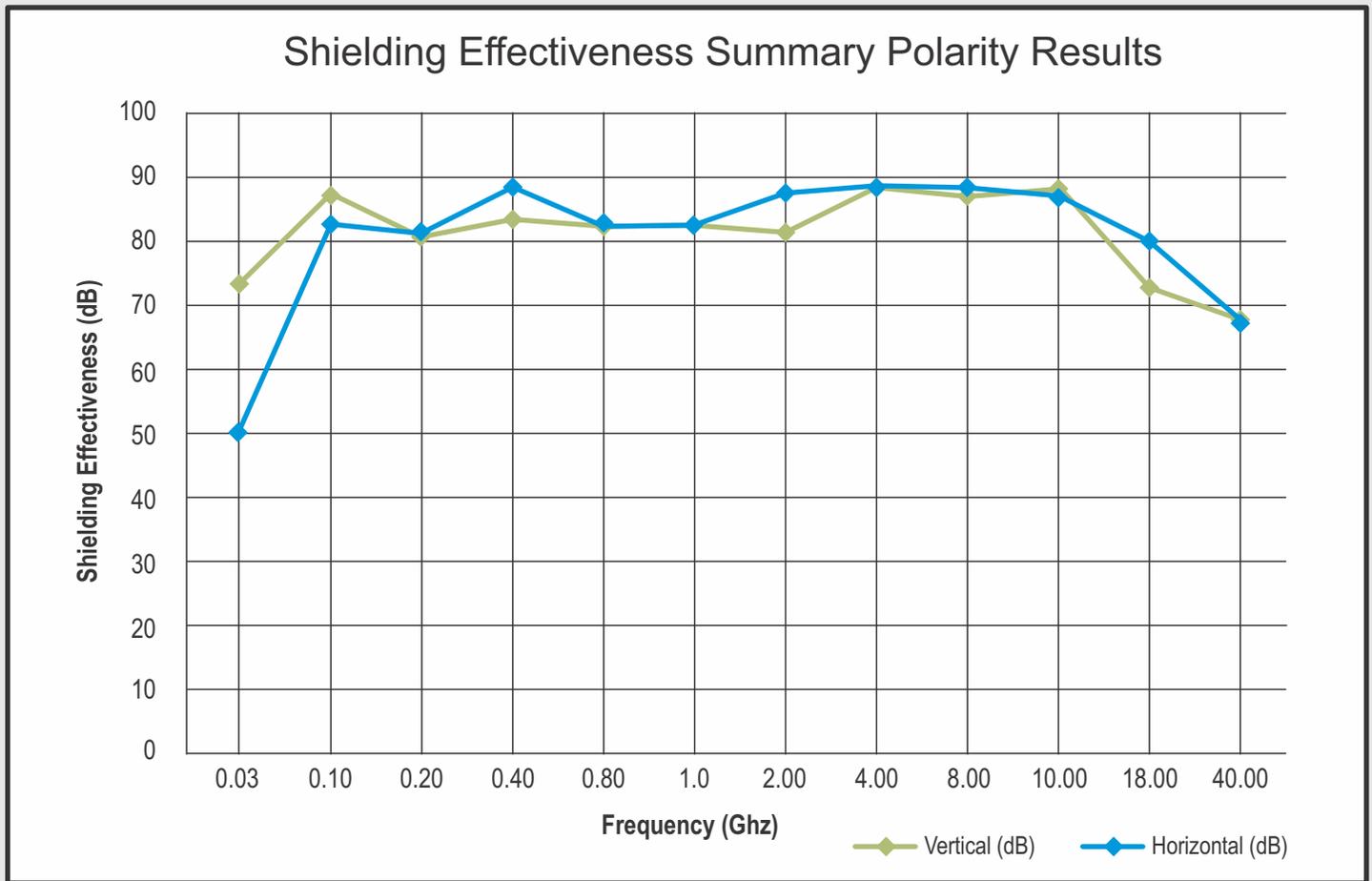


Application Notes:

The Architectural Specifications for any particular job shall override the information presented on this Technical Data Sheet with regards to the appropriate products to use and the appropriate installation method to use for that particular job.



Shielding Effectiveness - Test Standard IEEE-299 / ASTM D4935  
Test results for Ultra NT Radiant Barrier 1800-48-125S **(SOLID product)**



**(SOLID product)**  
No Perforation

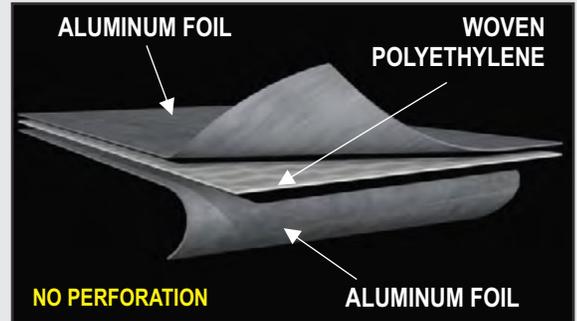


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- Thermal performance unaffected by moisture
- Unrolls and cuts easily
- Durable and flexible woven polyethylene base
- Increases sound attenuation for SCIF's

**Applications:**

- Sensitive Compartmented Information Facilities (SCIF's)

**Stock Roll Sizes:**

<b>Size:</b>	48" x 250' (Solid)
<b>Part No.</b>	EF1800-48-250SCIF

**(SOLID product)**  
No Perforation

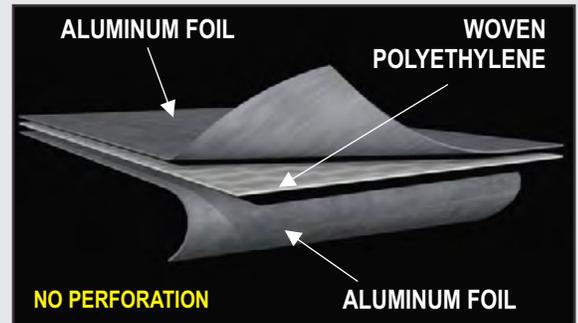


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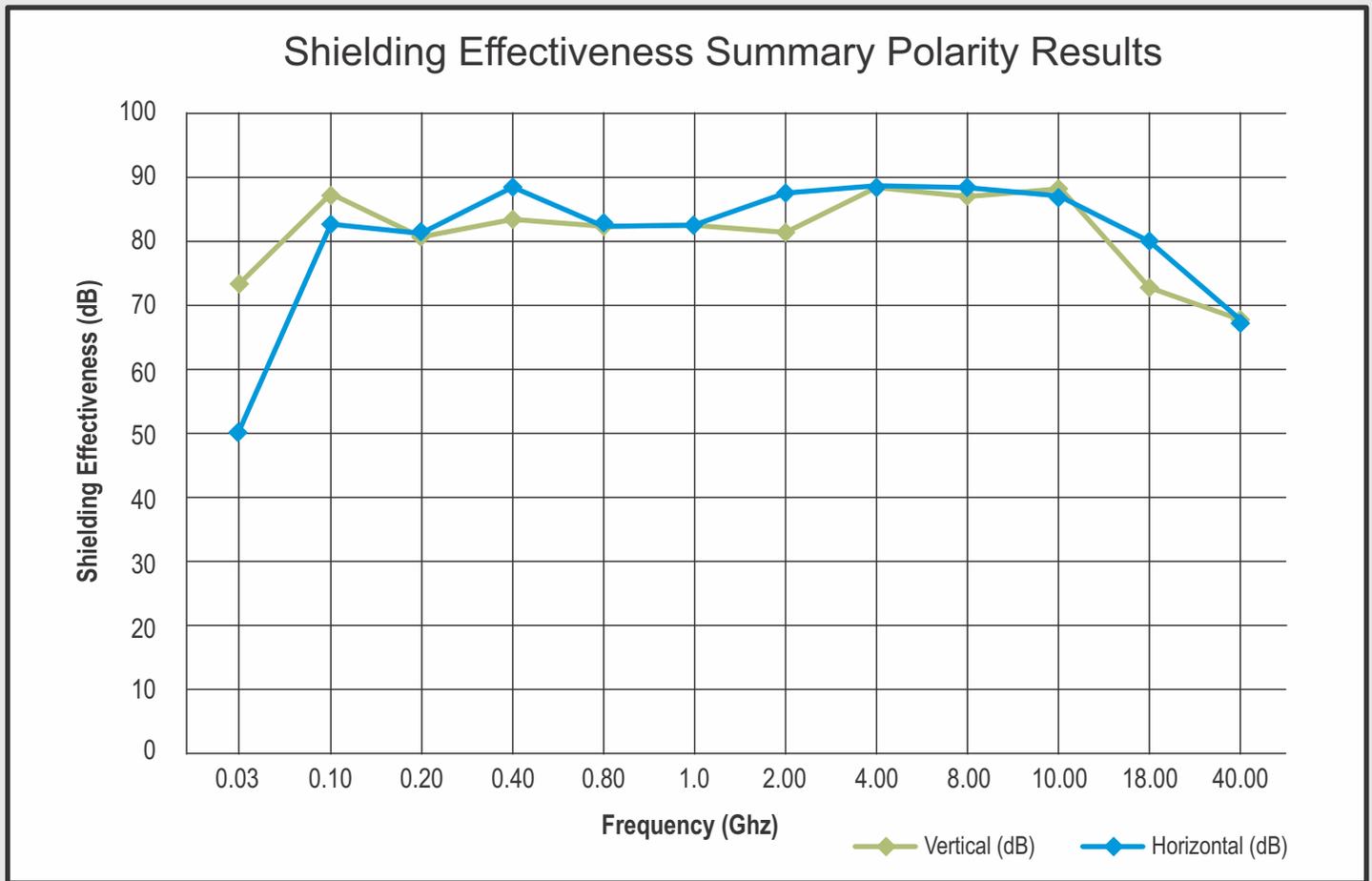


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Shielding Effectiveness - Test Standard IEEE-299 / ASTM D4935  
Test results for Ultra NT Radiant Barrier 1800-48-125S **(SOLID product)**



**(SOLID product)**  
No Perforation



## INSULATION TAPE

### Product Description:

EcoFoil® Insulation Tapes are available in four varieties: Aluminum, Aluminum Conductive, White Polyethylene and Metalized Foil. All EcoFoil tapes provide an excellent vapor barrier seal and are specifically designed for use with all EcoFoil® Insulation Products.

Acrylic pressure sensitive adhesive combines superior quick-stick at normal temperatures, with excellent low temperature performance below freezing.

These tapes can help maintain a complete seal in radiant barrier systems and are resistant to moisture, flame spread and smoke generation. High temperature resistance makes EcoFoil® tapes ideal for use in heat repelling application.



### Available Configurations:

EcoFoil® Adhesive Tapes are available with a metalized polyester, premium metalized polyester, aluminum, conductive aluminum, or a durable white poly surface. The acrylic adhesive was specially formulated for excellent performance at sub-freezing temperatures, without compromising ease of application.

### Features:

- Pressure-sensitive acrylic adhesive forms a bond that strengthens with time
- Maintain a continuous vapor barrier and constant insulator
- In exposed application, EcoFoil® tapes help create a seamless finish to interior walls and ceiling

## PRODUCT SPECIFICATIONS

Product Code Item Numbers and Sizes:	EF15073 3" x 180'	EF15113 3" x 150'	EF15513 3" x 150'	EF11702 2" x 54'	EF15853 3" x 150'
Physical Properties	STANDARD METALIZED FOIL	PREMIUM METALIZED FOIL	ALUMINUM FOIL	ALUMINUM CONDUCTIVE FOIL	WHITE POLY
THICKNESS	3.0 MILS (0.003")	3.2 MILS (0.0032")	3.15 MILS (0.00315")	3.0 +/- 0.1 mils	2.0 MILS (0.002")
PEEL ADHESION	30 oz. / in.	60 oz. / in.	54 oz. / in. width	25 oz/in (2.7 N/cm)	22.0 oz. / in.
BACKING	Polypropylene (BOPP)	Polypropylene (BOPP)	Aluminum Foil	Aluminum Shielding Effectiveness (69dB)	White Polypropylene (BOPP)
ELONGATION	130%	130%	3%	5%	—
TENSILE STRENGTH	20 lbs. / in.	20 lbs. / in.	20 lbs. / in.	14 lb/in (25 N/cm)	20 lbs. / in.
TEMPERATURE RESISTANCE	-40°C to 85°C	-40°C to 85°C	-35° to 248°F	-40°C to 130°C	-30°C to 120°C
ADHESIVE	Acrylic	Acrylic	Acrylic	Electrically Conductive Acrylic	Acrylic
FIRE CLASSIFICATION	UL723	—	UL723	UL510	—

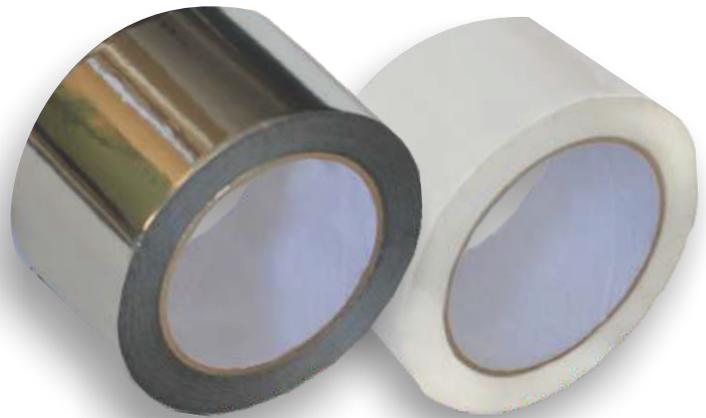


## INSULATION TAPE

### APPLICATION INSTRUCTIONS:

1. The surface to which the tape is to be applied must be free of oils, dust, and dirt. The surface must be cleaned with a dry cloth.

2. The release liner should then be removed 1-2 feet at a time (if applicable) and the adhesive face pressed firmly on the insulation facing. Care should be taken not to stretch the tape tightly as this will create buckles and voids in the contact area on both sides of the joint for the tape to bond. Uneven width distribution also puts additional shear stress on the smaller side of the butt joint.



3. The tape should then be wiped firmly from the center out (like wallpaper) with a plastic wiping tool (enclosed with a full carton). Note: To obtain a greater bond, apply more pressure to the tape surface.

4. Be sure to cut the end of the tape to the appropriate length.

### IMPORTANT INFORMATION

The information cited is in good faith and has been established from sources held to be secure and reliable. The values listed are typical properties and are not intended to be used as specifications for defined applications. User must determine the product for suitability for the end use application and assume all risks and liabilities.



# MSDS Sheets

## Contact Us

888.349.3645

[customerservice@ecofoil.com](mailto:customerservice@ecofoil.com)





# MATERIAL SAFETY DATA SHEET

## 1800S SERIES NT RADIANT BARRIER (SOLID)

Designed for (SCIF's) Sensitive Compartmental Information Facilities  
(Aluminum Foil / Woven Poly / Aluminum Foil)

March 2021

MATERIAL SAFETY DATA

### SECTION 1: PRODUCT IDENTIFICATION

NAME: rFOIL® 1800S SERIES NT RADIANT BARRIER (for SCIF's)  
DESCRIPTION: SOLD (NON-PERFORATED ALUMINUM RADIANT BARRIER FOR SCIF's)  
MANUFACTURER: COVERTECH FLEXIBLE PACKAGING INC.  
ADDRESS: 279 HUMBERLINE DRIVE ETOBICOKE, ONTARIO, CANADA M9W 5T6  
TELEPHONE: 800-837-8961 or 888-887-3645 FAX: 416-798-1342

### SECTION 2: HAZARDOUS INGREDIENTS

THESE PRODUCTS ARE NOT CONSIDERED TO BE HAZARDOUS, AND ARE NOT CLASSIFIED AS 'CONTROLLED PRODUCTS'. THEY ARE COMPRISED PRINCIPALLY OF POLYETHYLENE AND ALUMINUM FOIL THAT ARE NON HAZARDOUS.

### SECTION 3: PHYSICAL DATA

BOILING POINT: NOT APPLICABLE  
TEMPERATURE RANGE: -50°F TO 180°F  
WATER VAPOUR PERM: 0.01 PERMS  
APPEARANCE: FLEXIBLE SHEET  
ODOR: NONE



### SECTION 4: FIRE and EXPLOSION DATA

FLAME SPREAD: 0 (ASTM E84-10)  
SMOKE DEVELOPMENT: 20 (ASTM E84-10)  
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, WATER OR FOAM  
USUAL FIRE HAZARDS: ALUMINUM FOIL MATERIALS ARE NOT HIGHLY FLAMMABLE, BUT IN CONTACT WITH FLAME THEY WILL MELT AND BURN.

### SECTION 5: REACTIVITY DATA

STABILITY: PRODUCTS ARE STABLE AND INERT TO MOST CHEMICALS. NONE CAUSE A VIOLENT REACTION.  
INCOMPATIBILITY: CONSULT WITH MANUFACTURER PRIOR TO USING AS A CONTAINMENT OR BARRIER FOR CHEMICALS OTHER THAN WATER.

### SECTION 6: HEALTH HAZARD DATA

INHALATION: NONE  
EYES & SKIN: NONE  
INGESTION: PRODUCTS SHOULD NOT BE EATEN OR KEPT IN CONTACT WITH FOOD

### SECTION 7: HEALTH HAZARD DATA

GENERALLY THE PRODUCTS REQUIRE NO SPECIAL PRECAUTIONS WHEN HANDLING. HOWEVER THE PRODUCTS MAY BECOME SLIPPERY WHEN WET, AND CARE SHOULD BE TAKEN WHEN WALKING ON THIS.

NOTE: THE INFORMATION CONTAINED IN THIS SHEET IS DISCLOSED IN GOOD FAITH AND IS PROVIDED TO THE BEST KNOWLEDGE OF THE MANUFACTURER. NEVERTHELESS IT IS NOT A WARRANTY AND COVERTECH FLEXIBLE PACKAGING INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED FROM THE USE OR INABILITY TO USE THE PRODUCT.



279 Humberline Drive Etobicoke, ON M9W 5T6  
Toll Free: 1-800-837-8961 Local: 416-798-1340  
Email: sales@rfoil.com Website: www.rfoil.com

Published: April 15, 2022





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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

<b>Document Group:</b>	16-2384-2	<b>Version Number:</b>	1.03
<b>Issue Date:</b>	04/30/21	<b>Supersedes Date:</b>	05/28/19

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Aluminum Foil Tape 1115, 1115B, 1120, 1170, 1267

#### Product Identification Numbers

80-6112-1600-5  
7000006181

#### 1.2. Recommended use and restrictions on use

##### Recommended use

EMI shielding tape for electronic devices

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Electrical Markets Division
<b>ADDRESS:</b>	3M Center, St. Paul, MN 55144-1000, USA
<b>Telephone:</b>	1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
ALUMINUM FOIL	7429-90-5	80 - 90

Acrylic Adhesive	Trade Secret*	10 - 20
silver-coated inert particle	Trade Secret*	<= 1

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated.

#### Skin Contact:

No need for first aid is anticipated.

#### Eye Contact:

No need for first aid is anticipated.

#### If Swallowed:

No need for first aid is anticipated.

## SECTION 5: Fire-fighting measures

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2. Environmental precautions

Not applicable.

### 6.3. Methods and material for containment and cleaning up

Not applicable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties****Appearance**

Physical state

Solid

Color

Gray, Silver

**Specific Physical Form:**

Roll of Tape

**Odor**

Slight Odor

**Odor threshold***Not Applicable***pH***Not Applicable***Melting point**

660 °C [Details: for aluminum foil]

**Boiling Point***Not Applicable***Flash Point***Not Applicable***Evaporation rate***Not Applicable***Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)***Not Applicable***Flammable Limits(UEL)***Not Applicable***Vapor Pressure***Not Applicable***Vapor Density***Not Applicable***Density***No Data Available***Specific Gravity**

2.72 [Ref Std: WATER=1]

**Solubility in Water**

Nil

**Solubility- non-water***Not Applicable***Partition coefficient: n-octanol/ water***No Data Available***Autoignition temperature***Not Applicable***Decomposition temperature***Not Applicable***Viscosity***Not Applicable***Average particle size***No Data Available***Bulk density***No Data Available***Hazardous Air Pollutants***No Data Available***Molecular weight***No Data Available***Percent volatile***Not Applicable***Softening point***No Data Available***SECTION 10: Stability and reactivity**

This material is considered to be non reactive under normal use conditions.

**SECTION 11: Toxicological information****Inhalation:**

No health effects are expected

**Skin Contact:**

No health effects are expected

**Eye Contact:**

No health effects are expected

**Ingestion:**

No health effects are expected

**Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use

may affect the performance of the product and may present potential health and safety hazards.

## SECTION 12: Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

## SECTION 13: Disposal considerations

Dispose of contents/container in accordance with the local/regional/national/international regulations.

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

Health: 0 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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Issue Date: 04/30/21

Version Number: 1.03  
Supersedes Date: 05/28/19

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February 7, 2024

Re: Material Safety Data Sheet or Safety Data Sheet

To Whom It May Concern:

In response to your request for a Material Safety Data Sheet (MSDS) / Safety Data Sheet (SDS) from Emballages Matco Packaging Inc, we offer the following information:

The packaging material in question is an “article” as defined by the *United States Department of Labor* (DOL), *Occupational Safety and Health Administration* (OSHA) and is a “manufactured article” as defined by the *Canadian Hazardous Products Act* (R.S.C., 1985, c. H-3) and as such is exempt from the requirement for an MSDS/SDS.

US Federal OSHA defines an “article” as follows at 29 CFR 1910.1200 (c):

*Article* means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

The *Canadian Federal Hazardous Products Act* defines a “manufactured article” as follows at PART II Hazardous Products, Interpretation, paragraph 11(1):

*Manufactured article* means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, under normal conditions of use, will not release or otherwise cause a person to be exposed to a controlled product;

Any product which meets the definition of an “article” or a “manufactured article” is exempt from the requirement to provide an MSDS or an SDS.

If you should need additional information, please contact your Sales or Customer Service Representative.

Sincerely,



David Mucciarone  
VP Sales



# FRP

SPRAY ADHESIVE



**For vertical and horizontal installation of EcoFoil products**

## PRODUCT CHARACTERISTICS

**Spray-Lock FRP Spray Adhesive** bonds approved EcoFoil products for commercial and residential applications. Material must be structurally sound for use in commercial or residential applications.

**Spray-Lock FRP Spray Adhesive** uses 60% less adhesive than traditional trowel-on adhesives.

**Spray-Lock FRP Spray Adhesive** increases productivity with a faster application rate, saving time and money. Spray-Lock FRP Spray Adhesive comes in an easy-to-use aerosol can.

## ADVANTAGES

- Cuts labor cost by about 30%
- 8-hour working time
- Apply directly to wall/floor substrate or back of material for overhead/ceiling applications
- Releasable for repositioning (prior to rolling)
- Adheres to porous and non-porous substrates
- 0.0 g/mL VOC content
- Water-based adhesive
- Easy water cleanup while adhesive is still wet
- Non-flammable
- No offensive odors

\*According to EPA document: "National Volatile Organic Compound Emission Standards For Consumer Products" for aerosol adhesives.

## SUITABLE SUBSTRATES

**Spray-Lock FRP Spray Adhesive** adheres to most smooth, clean surfaces, including properly prepared:

- Plywood
- Drywall
- Water Resistant Drywall
- Approved Cement Board
- Metal
- FRP
- Ceramic Tile
- Concrete Substrates
- Block Wall

**NOTE: Prime all joint compound.**

## TECHNICAL CHARACTERISTICS

**Spray-Lock FRP Spray Adhesive** is a water-based acrylic blend spray adhesive that has milky white frost bubbles in appearance and provides immediate shear strength after tack during installation.

**Spray-Lock FRP Spray Adhesive** is solvent free, emits no harmful fumes, and contains 0.0 g/mL VOC (Volatile Organic Compounds) in content, according to EPA Test Method 8260B.

**Spray-Lock FRP Spray Adhesive** uses non-ozone depleting HFC propellant.

# TECHNICAL DATA

CHEMICAL TYPE	Water-based acrylic blend
APPEARANCE	Milky white frost bubbles
ODOR	Sweet mild odor
FLASH POINT	Will not burn
NFPA 704 FLAMMABILITY RATING	0 (Non-flammable)
SHELF LIFE	3 years, if unopened
OPEN TIME	8 hours
DRY TIME	Once adhesive is dry to touch (10-20 minutes)
VOC CONTENT	0.0 g/mL calculated per EPA Test Method 8260B
STORAGE	Do not subject to freezing temperatures
CLIMATE-CONTROL SETTINGS	Building owners should become aware of the wall and flooring material manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation.



## COVERAGE GUIDE

FRP ADHESIVE | 22 oz AEROSOL CAN

100 ft<sup>2</sup> (3.9 m<sup>2</sup>)

Coverage rates are a guide and figures will increase or decrease depending on the spraying technique implemented. Please refer to the Install Guide for detailed instructions.

DATE: 05.08.23  
REV: REL

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : FRP Adhesive

Product code : Not available

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive

#### 1.3. Details of the supplier of the safety data sheet

Spray-Lock, Inc.  
5959 Shallowford Road Suite 405  
Chattanooga, TN 37421 - USA  
T 423-305-6151

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1 (800) 424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Gases under pressure - Dissolved gas

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS04

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Contains gas under pressure; may explode if heated.

Precautionary statements (GHS-US) : Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

None.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable.

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
1,1-Difluoroethane	(CAS No) 75-37-6	10 - 30	Flam. Gas 1 Liquefied gas

\* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

- Protection during firefighting : Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

#### 6.2. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

#### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120°F. Do not pierce or burn, even after use. When using do not eat, drink or smoke.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep locked up and out of reach of children. Keep from freezing. Store away from direct sunlight or other heat sources. Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Not available.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

1,1-Difluoroethane (75-37-6)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Gas/Pressurized Liquid
Appearance	: Clear
Color	: White
Odor	: Sweet
Odor threshold	: No data available
pH	: 5.5 - 7.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 32°F (0°C)
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 68°F	: > 1 (Air = 1)
Relative density	: 1.03
Solubility	: Miscible
Partition coefficient: n-octanol/water	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
VOC Content	: <0.001 g/mL (EPA Method 24)

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### 10.2. Chemical stability

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

### 10.5. Incompatible materials

Oxidizers. Nitrates. Chlorine bleach.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

FRP Adhesive	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	No data available
LC50 inhalation rat	No data available

1,1-Difluoroethane (75-37-6)	
LC50 inhalation mouse	977 g/m <sup>3</sup> /2h

Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: Not a normal route of exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

FRP Adhesive	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

FRP Adhesive	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Pressurized container: Do not pierce or burn, even after use.

### SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : UN1950  
Proper Shipping Name (DOT) : Aerosols, non-flammable  
Department of Transportation (DOT) Hazard Classes : 2.2  
Hazard labels (DOT) :



#### Additional information

Other information : No supplementary information available.  
Special transport precautions : Do not handle until all safety precautions have been read and understood.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

#### 15.2. US State regulations

#### FRP Adhesive

State or local regulations	None
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### SECTION 16: Other information

Date of issue : 06/10/22  
Other information : None.

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

**Section 1: Identification**

**Product Name**            **EMCaulk Flex**  
**Product Code**           **4FS032**  
**Manufacturer**            **Conductive Composites**  
                                  **830 E. South Flat Rd**  
                                  **Cleveland, UT 84518**  
                                  <https://www.conductive.com>  
**Telephone (General)**   **(435) 654-3683**

**Relevant identified uses of the substance or mixture and uses advised against**

**Product Use**             Professional applications only  
**Use of the substance**   Caulking or sealing conductive or shielding applications  
**Uses advised against**   None known

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

**OSHA / HCS status:**     This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains important information for the successful use and handling of the product. Maintain a copy of this document for employees and users of the product.

**Classification of the Substance or Mixture:**  
                                  Category 2 – Specific Target Organ Toxicity (Repeated Exposure)

**GHS Label Elements:**

**Hazard Pictogram:**



**Signal Word:**            Danger, Warning

**Hazard Statement:**     May cause skin and eye irritation  
                                  May cause cancer  
                                  May cause genetic defects  
                                  May cause damage to organs through prolonged exposure

**Precautionary statements:**

**General:**                Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention:**            Use proper “personal protective equipment” (PPE) as required. Use of a barrier cream on exposed skin may provide additional protection. Wash hands thoroughly after handling. Do not breath dust. This product is not normally sanded, the risk of exposure is considered to be low.

**Response:**              Get medical attention if you feel unwell.

**Storage:**                Store in dry location at temperatures between 50 °F – 90 °F (10 °C to 33 °C).

**Disposal:**              Dispose of contents and container in accordance with all local, regional, national, and international regulations.

**Supplemental label elements:** Avoid contact with skin and clothing. Wash thoroughly after handling. May emit toxic fumes when heated.

Hazards not otherwise classified: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3: Composition/Information on Ingredients

Substance / mixture: Mixture.

Ingredient Name	Typical Composition	C.A.S. Number	
Nickel (Ni)	20 - 60 %	7440-02-0	231-111-4
White Mineral Oil (petroleum)	3 – 7 %	8042-47-5	232-455-8
Ethylene Glycol	< 2%	107-21-1	203-473-3

Based on product and formula knowledge, there are no additional ingredients present which are classified as hazardous to health and thereby are not required to be reported in this section. Occupational exposure limits, if available, are listed in Section 8. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### Section 4: First-Aid Measures

**EYE CONTACT:** Check for and remove any contact lenses. Immediately flush eyes with running water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 15 minutes. Seek medical attention.

**INHALATION:** Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**INGESTION:** Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

**SKIN:** Remove contaminated clothing, wash affected area with soap and warm water. To avoid further irritation, do not rub or scratch the irritated areas. Seek medical attention if symptoms develop or persist.

#### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

**EYE CONTACT:** May cause serious eye irritation.

**INHALATION:** Exposure to decomposition products may cause health hazard. Serious effects may be delayed.

**SKIN CONTACT:** May cause skin irritation.

**INGESTION:** Irritation to the mouth, throat, and stomach.

#### OVER-EXPOSURE SIGNS / SYMPTOMS:

**EYE CONTACT:** Adverse symptoms may include: pain, watering, reddening.

**INHALATION:** No specific data.

**SKIN CONTACT:** Adverse symptoms may include: irritation, redness.

**INGESTION:** No specific data.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NECESSARY:**

**NOTES TO PHYSICIAN:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Otherwise treat symptomatically.

**SPECIFIC TREATMENTS:** No specific treatment.

**PROTECTION TO FIRST RESPONDERS:** No action shall be taken involving any personal risk without proper, suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation if the exposed person inhaled or ingested material. Wash contaminated clothing thoroughly with water before removing. Wear disposable gloves.

**Section 5: Fire-Fighting Measures**

**FLAMMABILITY OF THE PRODUCT:** Use an extinguishing agent suitable for the surrounding fire

**EXTINGUISHING MEDIA:** Use extinguishing agent suitable for surrounding material and type of fire.

**UNSUITABLE EXTINGUISHING MEDIA:** None known.

**OXIDIZING PROPERTIES:** Not oxidizing

**SPECIFIC HAZARDS ARISING FROM THE MATERIAL:** This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged into any waterway, sewer, or drain.

**HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:** Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), carbonyl halides, nickel oxides.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** Promptly isolate the scene and remove all persons in the vicinity of the accident if there is a fire. No action shall be taken involving any personal risk without proper training.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:** Use full face, self-contained breathing apparatus, and full protective clothing when necessary.

**Section 6: Accidental Release Measures****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:**

**FOR NON-EMERGENCY PERSONNEL:** No action shall be taken involving any personal risk or without proper training. Use appropriate personal protective equipment. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Use appropriate personal protective equipment.

**FOR EMERGENCY RESPONDERS:** If specialized clothing is required to deal with the spillage, refer to any relevant information in Section 8 on suitable and unsuitable materials.

**ENVIRONMENTAL PRECAUTIONS:** Avoid spreading of spilled material into soil, waterways, drains, or sewers. Inform proper authorities if the product has caused any environmental release or exposure to

the above areas. Water polluting material. May be harmful to the environment if released in large quantities.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:**

**SMALL SPILL:** Stop leak if without risk. Remove containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**LARGE SPILL:** Stop leak if without risk. Remove containers from spill area. Prevent entry into waterways, drains, or sewers. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Section 7: Handling and Storage**

**PRECAUTIONS FOR SAFE HANDLING:**

**PROTECTIVE MEASURES:** Wear appropriate personal protective equipment (PPE) (see Section 8). Do not allow contact with eyes or mucous membranes. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Empty containers may retain some product residue and can be hazardous. Do not reuse containers. Note, this material is electrically conductive. Avoid repeated or continuous skin contact. Always wear suitable disposable gloves.

**ADVICE ON GENERAL HYGIENE:** Eating, drinking, and smoking should be prohibited in areas where this material is being handled, stored, processed, or used. Workers should wash hands and face after use and before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**CONDITIONS FOR SAFE STORAGE:**

Store at temperatures between 50 °F to 90 °F (10 °C to 33 °C). Do not expose containers of the material to temperatures below 41 °F (5 °C). Store in original container in a cool, dry, well ventilated area protected from direct sunlight. Store away from incompatible materials (see Section 10) and food and drink. Keep containers tightly closed and sealed until ready for use. Containers that have been opened must be carefully re-sealed and kept upright to prevent leakage or premature drying. Do not store in unlabeled containers.

**Section 8: Exposure Controls/Personal Protection**

**CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS:**

Ingredient Name	Exposure Limits
White Mineral Oil (petroleum)	<b>ACGIH TLV (US 6/2013)</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Inhalable fraction <b>OSHA PEL (US 2/2013)</b> TWA: 5 mg/m <sup>3</sup> 8 hours
Ethylene Glycol	<b>ACGIH TLV (US 6/2013)</b> Ceiling Limit: 100 mg/m <sup>3</sup> 8 hours. Aerosol

**RECOMMENDED MONITORING PROCEDURES:** If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**APPROPRIATE ENGINEERING CONTROLS:** Good general ventilation will aid in drying and minimize exposure to the worker. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work processing equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**INDIVIDUAL PROTECTION MEASURES:**

**EYE/FACE PROTECTION:** Safety eyewear complying with an approved safety standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**SKIN PROTECTION:** Wear chemical resistant, impervious, disposable gloves to protect hands. Wear protective clothing such as a loose fitting, long sleeved, shirt that covers the arms and neck, long pants, and shoes that cover the entire foot.

**RESPIRATORY PROTECTION:** Not ordinarily required. If sufficient vapor or fumes are generated during application, use a NIOSH approved organic vapor respirator.

**VENTILATION:** Use local exhaust to control vapor, particulates, and dust, below acceptable exposure limits. If exhaust ventilation is not available or is inadequate, use a NIOSH approved respirator, as appropriate. Discharge from the ventilation system should comply with applicable air pollution control regulations.

**GENERAL HYGIENE RECOMMENDATIONS:** Before eating, drinking, smoking, or using toilet facilities, wash face and hands thoroughly with soap and water. Use vacuum equipment to remove dry product, dust, fibers, or particulate from clothing and work areas. Use of compressed air to remove material is NOT recommended.

## Section 9: Physical and Chemical Properties

Physical State:	Paste
Color:	Medium / dark gray
Odor:	Mild acrylic / acrylate
Odor Threshold:	Not available
pH:	7.5 – 8.5 typical
Viscosity:	Not available
Melting Point:	Not available
Boiling Point of Resin	Not available
Flash Point	Not available
Autoignition Temperature:	Not available
Decomposition Temperature:	Not available
Evaporation Rate:	0.35 (of solvent portion, butyl acetate = 1)
Flammability:	Not available

Lower Explosive Limit:	Not available
Upper Explosive Limit:	Not available
Vapor Pressure:	2.3 kPa (of solvent portion at 20 °C)
Vapor Density:	Not available
Relative Liquid Density:	~ 2 g/cm <sup>3</sup>
Solubility:	Dry material is insoluble in water, paste material soluble in water
Viscosity:	Not determined
Partition Coefficient:	Not available
VOC (wt%):	15-40 %

### Section 10: Stability and Reactivity

**REACTIVITY:** None known based on available information and formula knowledge.

**CHEMICAL STABILITY:** The product is considered stable.

**CONDITIONS TO AVOID:** Strong oxidizing or reducing agents. Strong acids or bases. Exposure to high temperatures may produce hazardous decomposition products. Refer to Sections 7 and 8. Under special conditions the nickel present in this formula can react with carbon monoxide in a reducing atmosphere to form nickel carbonyl, Ni(CO)<sub>4</sub>, a toxic gas. This is very unlikely.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Under normal conditions of storage and use, no hazardous reactions will occur.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization does not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, oxides of nickel.

### Section 11: Toxicological Information

**ACUTE TOXICITY:**

**PRODUCT COMPONENT INFORMATION**

INGREDIENT	RESULT	SPECIES	DOSE
NICKEL	LD50 ORAL	RAT	> 9000 mg/kg
WHITE MINERAL OIL	LD50 ORAL	RAT	> 5000 mg/kg
ETHYLENE GLYCOL	LD50 DERMAL	RABBIT	9.53 g/kg
	LD50 ORAL	RAT	4700 mg/kg

**SENSITIZATION:** No data available on the mixture.

**MUTAGENICITY:** No data available on the mixture.

**CARCINOGENICITY:** No data available on the mixture.

**CONCLUSION / SUMMARY:** Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

**REPRODUCTIVE TOXICITY:** No data available on the mixture.

**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):** No data available on the mixture.

**SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):**

NAME	CATEGORY
ETHEYLENE GLYCOL	2

**TARGET ORGANS:** Contains material which may cause damage to the following organs: kidneys, heart, upper respiratory tract, skin, central nervous system, eye (lens or cornea).

**ASPIRATION HAZARD:**

NAME	CATEGORY
WHITE MINERAL OIL (PETROLEUM)	ASPIRATION HAZARD – CATEGORY 1

**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:** Routes of entry anticipated: dermal.

**POTENTIAL ACUTE HEALTH EFFECTS:**

- Eye Contact: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Skin Contact: Defatting to the skin. May cause skin dryness and irritation.
- Ingestion: No known significant effects or critical hazards.

**POTENTIAL CHRONIC HEALTH EFFECTS:** No data available on the mixture

- General:** No known significant effects or critical hazards.
- Carcinogenicity:** May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity:** No known significant effects or critical hazards.
- Teratogenicity:** No known significant effects or critical hazards.
- Developmental effects:** No known significant effects or critical hazards.
- Fertility effects:** No known significant effects or critical hazards.

**NUMERICAL MEASURES OF TOXICITY:**
**Acute Toxicity Estimates:**

Route	ATE Value
Oral	> 14,578.5 mg/kg

**Section 12: Ecological Information**

**TOXICITY:** Not available.

**PERSISTENCE AND DEGRADABILITY:** Not available.

**BIOACCUMULATIVE POTENTIAL:**

Product Ingredient	LogP <sub>ow</sub>	BCF	Potential
White Mineral Oil (petroleum)	>6	-	high
Ethylene Glycol	-1.36	-	low

**MOBILITY IN SOIL:**

Soil / Water Partition Coefficient (K<sub>oc</sub>): Not available.

**Section 13: Disposal Considerations**

**DISPOSAL METHODS:** The generation of waste should be avoided. Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

Nickel-containing waste can be collected to recover nickel values. Should nickel recovery be implemented, follow EPA and local regulations.

**Section 14: Transport Information**

	DOT Classification	TDG Classification	IMDG	IATA
<b>UN Number</b>	UN3077		Not regulated	Not regulated
<b>UN Proper Shipping Name</b>	Environmentally hazardous substance, solid, N.O.S. (carbendazim (ISO))			
<b>Transport Hazard Class(es)</b>	9			
<b>Packing Group</b>	III			
<b>Environmental Hazards</b>	No	No	No	No
- Marine Pollutant Substances	Not applicable	Not applicable	Not applicable	Not applicable
- Product RQ (lbs)	18518.5	Not applicable	Not applicable	Not applicable
- RQ Substances	(carbendazim (ISO))	Not applicable	Not applicable	Not applicable

**ADDITIONAL INFORMATION:**

**DOT:** Package sizes shipped in quantities less than the product reportable quantity and are not subject to the Reportable Quantity (RQ) transportation requirements.

**IMDG:** None identified.

**IATA:** None identified.

**SPECIAL PRECAUTIONS FOR USER:** Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Section 15: Regulatory Information**

**U.S. FEDERAL REGULATIONS:**

**TSCA Listed:** United States inventory (TSCA 8b): All components are listed or exempted.

**HMIS Ratings:** Health: 2 Flammability: 1 Physical: 0

**SARA 311/312 Classification:** Immediate (acute) health hazard. Delayed (chronic) health hazard.

**SARA 313:**

	Product Name	CAS	%
Supplier Notification	Nickel	7440-02-0	> 30
	Ethylene Glycol	107-21-1	0.3 – 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed. This product contains metallic nickel which is subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

**California Prop. 65:** This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. As indicated in Title 22 of the California Code of Regulations Section 12707(b)(5), for purposes of Proposition 65, nickel and nickel compounds present no significant risk of cancer by the route of ingestion.

**International Regulations:**

- Australia inventory (AICS): Not determined.
- Canada (DSL): All components are listed or exempted.
- China inventory (IECSC): Not determined.
- Europe inventory (REACH): Not determined.
- Japan inventory: Not determined.
- Korea inventory: Not determined.
- Malaysia Inventory (EHS Register): Not determined.
- New Zealand Inventory of Chemicals (NZIoC): Not determined.
- Philippines inventory (PICCS): Not determined.
- Taiwan inventory (CSNN): Not determined.

**Section 16: Other Information**

**HMIS: Health = 2, Flammability = 1, Physical Hazards = 0**

**NFPA: Health = 2, Flammability = 1, Instability / Reactivity = 0, Special = n/a**

**Key to Abbreviations:**

- ATE = Acute Toxicity Estimate
- GHS = Globally Harmonized System of Classification and Labeling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- UN = United Nations

Explanation and Disclaimer: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the SDS, amount and duration of exposures, other chemicals present and preexisting individual differences in response to the exposure.



**SDS-013 4FS032 EMCaulk Flex**  
**SAFETY DATA SHEET**

The data provided in this SDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other Federal and state laws as described in Section 15: Regulatory Information. This SDS and the information in it are not to be used for purposes other than compliance with the Federal OSHA Hazard Communication Standard.

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Revision History		
Revision	Effective Date	Summary of Changes
1.0	3/20/2023	Initial Release

# Brochure

## Contact Us

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BEST SELLER!

# Ultra NT SCIF Barrier

## Designed for SCIF Rooms

Block RF frequencies and eliminate the threat of electronic surveillance in SCIF rooms, SAPF, conference rooms, offices, or data storage facilities. Trusted worldwide by contractors, corporations, and government agencies.



### ULTRA NT SCIF BARRIER:



Exceptional electronic shielding from RF signals



Lightweight & easy to handle



Made of heavy-duty, tear-resistant aluminum



Installs quickly & easily



FREE Shipping, no minimum order quantities



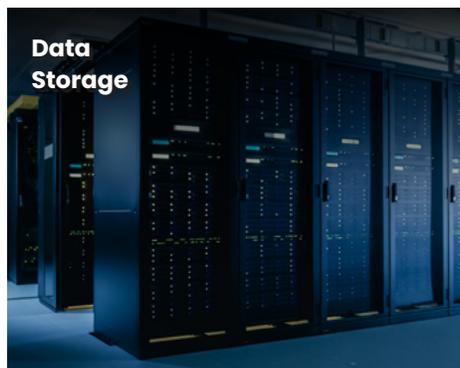
Unbeatable service



Watch the installation video



Military & Government SCIF Rooms



Data Storage

One-stop shop for installation accessories



**BULK PRICING  
AVAILABLE**



Scan for pricing and product information



### Solid SCIF Barrier FOR NON-VENTILATED SPACES

- **VAPOR BARRIER:** Seal seams with tape to maintain a vapor barrier, preventing passage of air and moisture
- **INSTALLS EASILY:** Use a staple gun or spray adhesive to secure in place
- Available in 500 or 1,000 sq. ft. rolls



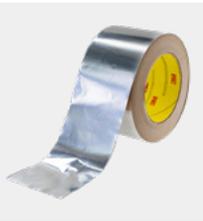
### Perforated SCIF Barrier FOR VENTILATED SPACES

- **BREATHABLE:** Tiny holes promote air movement, preventing buildup of moisture/mold
- **INSTALLS EASILY:** Use a staple gun or spray adhesive to secure in place
- Available in 500 sq. ft. rolls



### Eco-Friendly Spray Adhesive

Mount SCIF material easily onto wood, metal, drywall, concrete block, FRP wall panels, and more.



### SCIF Tape

Durable & easy to work with. Available with conductive or non-conductive adhesive.

## About EcoFoil

EcoFoil is an Iowa-based, employee-owned, award-winning company that prides itself on hard work and customer service. Contact us today to learn more about our line of energy-saving products.



888.349.3645  
sales@ecofoil.com  
EcoFoil.com



## Physical & Chemical Characteristics:

- Base: Acrylic Latex Polymer
- Solids: Approximately 80%
- Weight per Gallon: 16.7 ± 0.5
- Specific Gravity: 2.0 ± 0.5
- Service Temperature: 0° to 160°F
- Temperature Application Range: 40°F to 95°F and substrate not hotter than 120°F.
- Flash Point: None
- Applications: Interior / Exterior
- Shelf Life: 12 months when stored at 50°F to 80°F
- Coverage: 10.1 fl oz: 54 linear ft. at a 3/16" bead
- Odor: Mild Acrylic
- Working Time: 10 to 15 Minutes
- Tack Free Time: 60 Minutes

## EMCAULK FLEX: ELECTRICALLY CONDUCTIVE AND FLEXIBLE ACRYLIC LATEX CAULK

Engineered to provide electrical continuity, high flexibility, and excellent long-term EMI protection in a wide range of applications. EMCAULK FLEX is a quality sealant that is phthalate free and can be used on a wide variety of interior and exterior surfaces. Forms a highly flexible, durable, airtight, water resistant seal that offers protection from environmental conditions. Once cured, the bead is mildew resistant and exceeds the requirements of ASTM C-834 type P, Grade -18° C. Designed to seal gaps, cracks, joints, and seams around windows, trim, doors, siding, penetrations, hardboard and flashing. EMCAULK FLEX features soap and water clean-up and may be painted when cured.



### Performance Characteristics:

- Exceeds ASTM C-834, Type P, Grade -18°C
- Fills up to 1/2" gaps in joints
- Cured bead is mildew resistant
- Soap and water cleanup
- VOC < 1.5%, Low odor
- Phthalate Free Formulation
- Water and UV resistant seal
- Paintable
- Interior or exterior use



**Surface Preparation:** Surface must be dry and free of contaminants. Mold or mildew should be removed with a mild bleach cleaning solution and rinsed thoroughly. Only apply when sealant surface and air temperature are above 40°F. Do not apply on surfaces above 120° F or when rain is expected.

**Application:** Cut nozzle at a 45° angle. Joint not to exceed 1/2" in width. Use backer rod for joints deeper than 1/2". Tool or smooth bead within 15 to 20 minutes. Sealant maybe removed and tools cleaned with soap and water. Depending on climatic conditions, allow 4 to 6 hours curing time prior to painting. Full cure should be reached 10 days, dependent on temperature and humidity.

**Clean up:** Clean hands and tools with soap and water. Clean excess caulk with a damp cloth.

**Safety:** See Safety Data Sheet for safety information [www.faradaystructures.com](http://www.faradaystructures.com)

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# Ultra NT for SCIFs

## RF SHIELDING (SOLID)

### Contact Us

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